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UNIVERSITY OF ILLINOIS

SCHOOL OF PHARMACY

1924-1925

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

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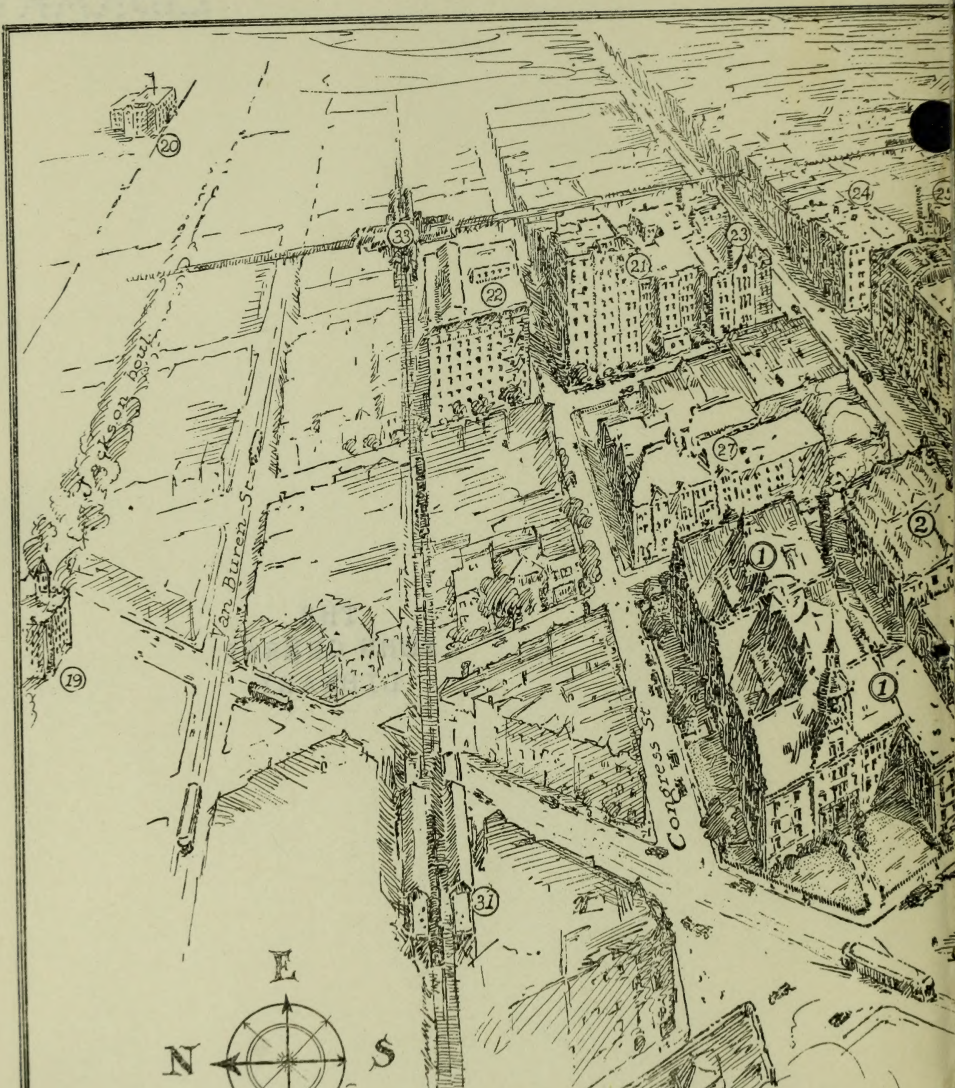
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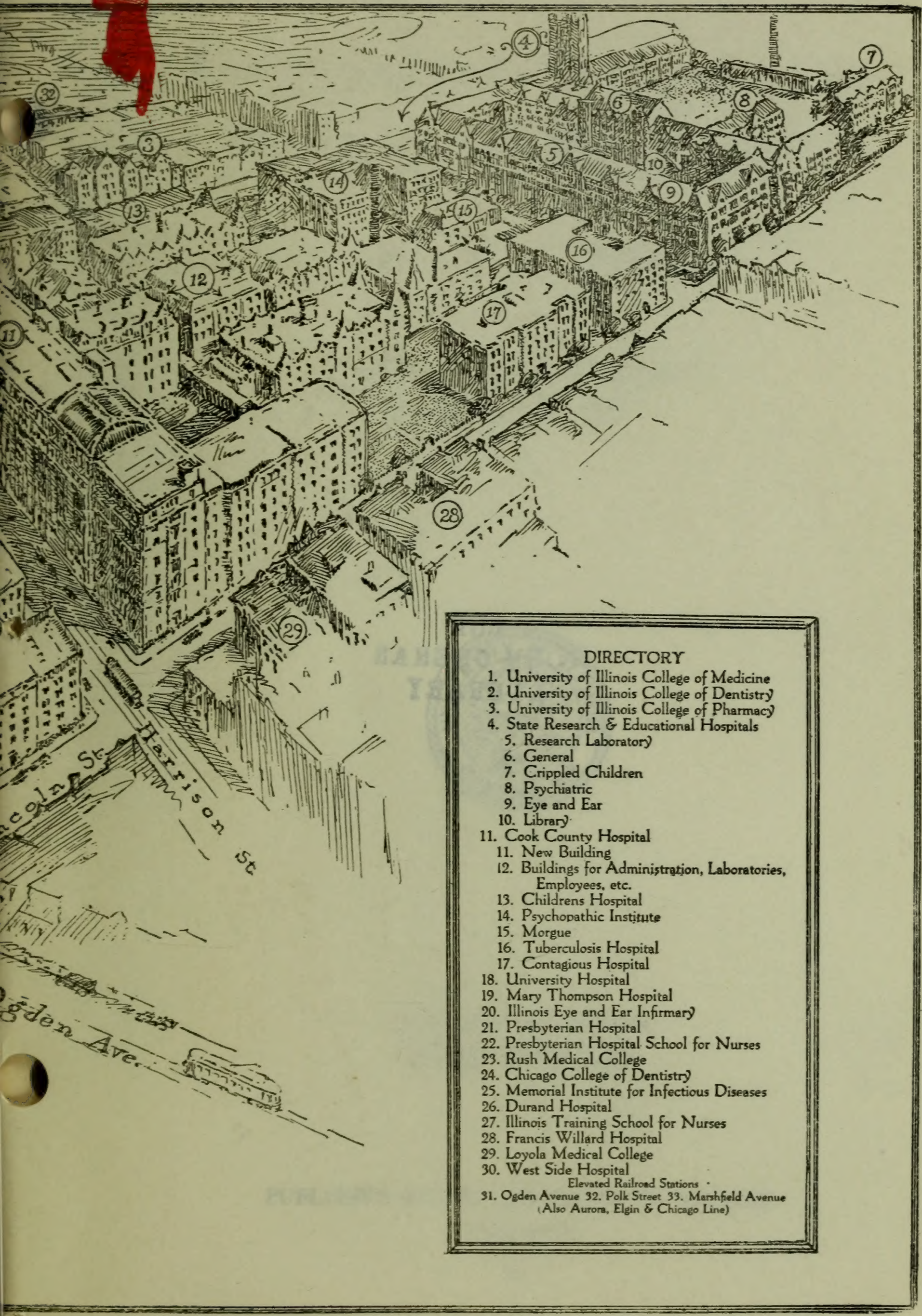
MEDICAL CENTER OF CHICAGO
Birds eye view of principal buildings



DIRECTORY

1. University of Illinois College of Medicine
2. University of Illinois College of Dentistry
3. University of Illinois College of Pharmacy
4. State Research & Educational Hospitals
    5. Research Laboratory
    6. General
    7. Crippled Children
    8. Psychiatric
    9. Eye and Ear
    10. Library
11. Cook County Hospital
    11. New Building
    12. Buildings for Administration, Laboratories, Employees, etc.
    13. Childrens Hospital
    14. Psychopathic Institute
    15. Morgue
    16. Tuberculosis Hospital
    17. Contagious Hospital
18. University Hospital
19. Mary Thompson Hospital
20. Illinois Eye and Ear Infirmary
21. Presbyterian Hospital
22. Presbyterian Hospital School for Nurses
23. Rush Medical College
24. Chicago College of Dentistry
25. Memorial Institute for Infectious Diseases
26. Durand Hospital
27. Illinois Training School for Nurses
28. Francis Willard Hospital
29. Loyola Medical College
30. West Side Hospital

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31. Ogden Avenue 32. Polk Street 33. Marshfield Avenue
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Sixty-fifth Annual Announcement

UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY

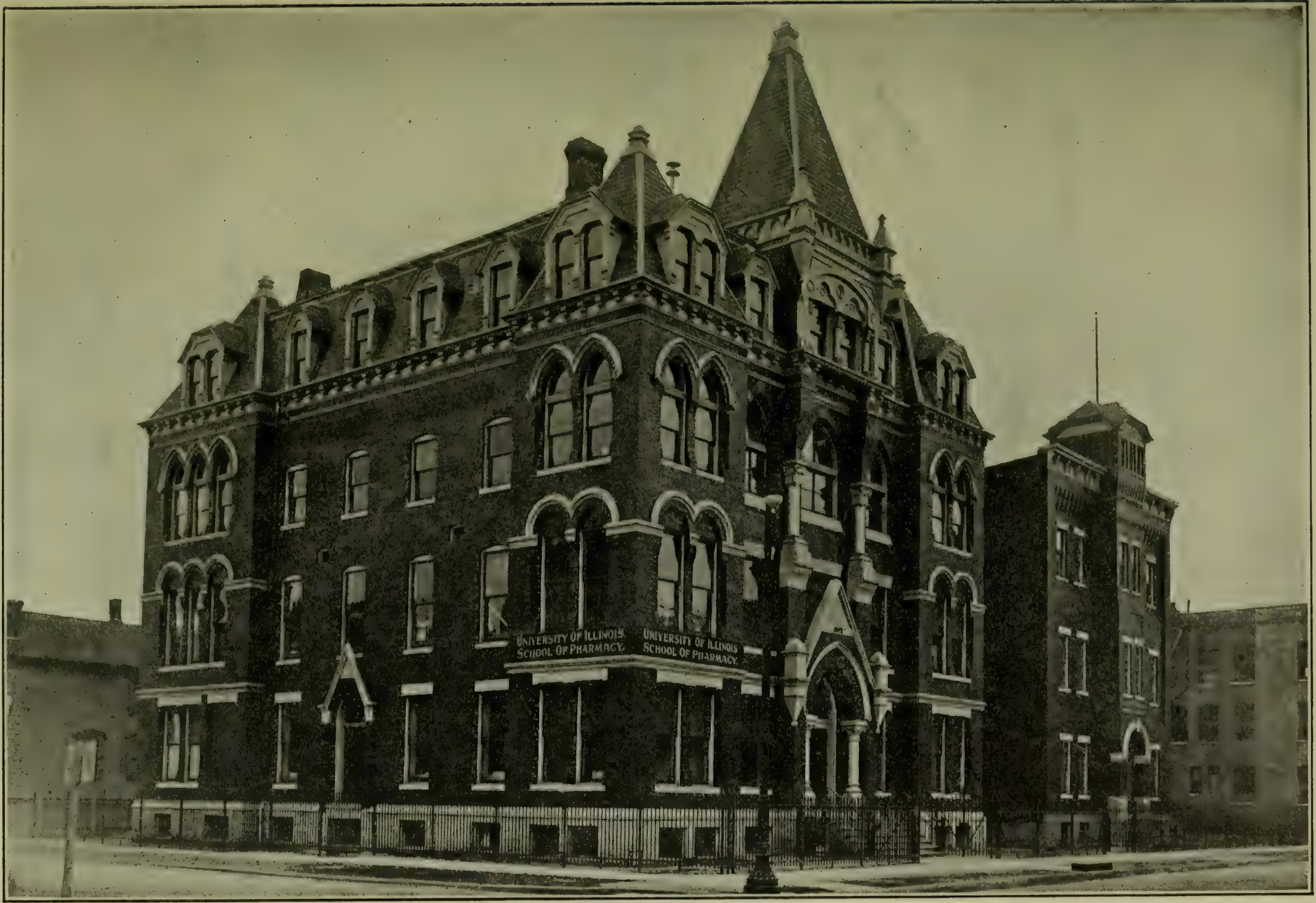
(CHICAGO COLLEGE OF PHARMACY)

WOOD AND FLOURNOY STREETS
CHICAGO, ILLINOIS

REGISTER FOR 1923-1924
SESSION OF 1924-1925

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

This School holds membership in the American Conference of Pharmaceutical Faculties. The object of the conference is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this conference higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the conference is evidence of this influence.


UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.
UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.

THE PHARMACY BUILDINGS

THE BOARD OF TRUSTEES

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The Superintendent of Public Instruction

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(Term, 1921-1927)

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(Term, 1923-1929)

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FACULTY—1923-1924

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Dean, Secretary of the Faculty; Professor of Materia Medica and Botany

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Professor of Chemistry

EDMUND NORRIS GATHERCOAL, Ph.G.
Assistant Professor of Pharmacognosy

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Assistant Professor of Chemistry

JAMES TOBIAS GROOT, B.S., M.D.
Lecturer in Physiology

ELMER HAUSER WIRTH, Ph.C., B.S., M.S.
Instructor in Pharmacognosy

HANS WALTER VAHLTEICH, Ph.D.
Instructor in Pharmacy

JOHN AUGUST DORJAHN, Ph.G.
Assistant in Pharmacognosy

LEWIS ELBERT MARTIN, Ph.G.
Assistant in Pharmacy

GEORGE LEWIS WEBSTER, Ph.G.
Assistant in Chemistry

FRANCES B. STOGIS, Ph.G.
Assistant in Chemistry

HERBERT SKOGLUND, Ph.G.
Assistant in Pharmacy

VIVIAN J. STUCHLIK, Ph.G.
Assistant in Bacteriology

CALENDAR—1924-1925

FIRST SEMESTER

SEPTEMBER 22-27—Monday-Friday
Examination for removal of conditions

OCTOBER 6—Monday, 8 a. m.-5 p. m.
Registration and payment of fees

OCTOBER 7—Tuesday, 9 a. m.
Semester instruction begun.

NOVEMBER 26—Wednesday, 12 m.
Thanksgiving recess begun.

DECEMBER 1—Monday, 9 a. m.
Instruction resumed.

DECEMBER 23—Tuesday, 5 p. m.
Holiday recess begun

JANUARY 5, 1925—Monday, 9 a. m.
Instruction resumed.

FEBRUARY 2-6—Monday-Friday
Semester Examinations.

SECOND SEMESTER

FEBRUARY 9—Monday, 8 a. m.-5 p. m.
Registration and payment of fees.

FEBRUARY 10—Tuesday, 9 a. m.
Semester instruction begun.

FEBRUARY 12—Thursday
Lincoln Day.

APRIL 9—Thursday, 5 p. m.
Easter recess begun.

APRIL 13—Monday, 9 a. m.
Instruction resumed.

MAY 30—Saturday
Memorial Day.

JUNE 1-12—Monday-Friday
Examinations.

JUNE 11—Thursday
Alumni meeting.

JUNE 15—Monday
Fifty-fourth Annual Commencement

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868 a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the technical School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists elected by the registered pharmacists of the state, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Twelfth Street, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

ANNOUNCEMENT

The sixty-fifth annual course of instruction in the University of Illinois School of Pharmacy will begin Tuesday, October 7, 1924, at 10 o'clock in the morning.

The course will continue thirty-four weeks. The graduating exercises will be held with the other Chicago departments of the University on Saturday, June 13, 1925.

This school offers to young men and young women the technical and scientific training necessary for the successful practice of pharmacy.

The demand for educated pharmacists is steadily increasing. This is due, in part, to the passage of Federal and State pure food and drug laws, which demand a higher degree of knowledge and skill, as well as greater care, from those who are entrusted with the responsible duties of preparing and dispensing medicines.

That the public is beginning to appreciate the importance of skilled and competent pharmaceutical service is shown by the progress of legislation increasing the educational requirements for those who desire to become pharmacists. In sixteen states a diploma from a recognized school of pharmacy must be presented by the candidate before he is admitted to the licensing examination.

As the demand for better education becomes apparent, salaries of drug clerks are increased.

Young men and women of character, who are industrious and honest, who have or will develop business ability, and who possess adequate pharmaceutical training are constantly sought. The demand for such young men will always far exceed the supply, and their prospects for success in pharmacy are better today than ever before.

While the young man may reasonably expect to obtain valuable business experience in the drug store, his scientific training and technical skill are best acquired in the school of pharmacy. Under the guidance of experienced teachers he is grounded in the sciences upon which the art of pharmacy is based, while the laboratories afford opportunity for acquiring the technical skill needed in identifying, preparing, testing, and dispensing drugs and medicines.

Along related lines af activity, many opportunities for specialization are offered. Graduates in pharmacy are frequently sought by manufacturing pharmacists or wholesale druggists as well as for hospitals and dispensaries. Pharmaceutical chemists find employment in food and drug laboratories, in commercial chemistry, or in teaching. Not a few graduates continue their studies in medicine.

The New Location

The new location is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred and one feet on Wood Street and one hundred and twenty-four feet on Flournoy Street.

The College Buildings

The college buildings include two substantial brick structures, which are connected by a stair-tower building affording a corridor at each floor. Both have daylight from four sides and electric lights throughout, and are heated by steam.

The larger building, known as the College Building, is sixty by eighty feet square and four stories in height. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, a large auditorium, two smaller lecture halls, several preparation rooms and private laboratories for the teachers, students' rooms, and locker rooms.

The smaller building, known as the Laboratory Building, is forty-four by eighty-eight feet square and three stories in height. It contains the pharmaceutical laboratory, the laboratory for commercial manufacturing, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

The Lecture Halls

The third and fourth floors of the College Building are largely occupied by an auditorium, capable of seating two hundred and fifty persons. Preparation rooms for the teachers are immediately adjoining. On the second floor of the same building is a hall arranged in amphitheatre form and with a seating capacity of one hundred and twenty. A smaller hall on the same floor is provided with school desks for ninety persons.

The Laboratories

Six general laboratories for the large classes as well as several special laboratories are provided. The total capacity of the larger laboratories is about three hundred and sixty students working at one time. The laboratories are provided with gas, electricity, hot and cold water, distilled water, and compressed air.

The Pharmaceutical Laboratory

The Pharmaceutical Laboratory occupies a room thirty-two by fifty-one feet in size, situated on the first floor of the Laboratory Building and having windows on three sides. Work-stands are provided for sixty-eight students, with lockers for four times that number. Each work-stand is four feet long and is equipped with water, sink, sand bath, gas, retort stand, and water bath. The individual kit furnished to each student includes percolators, graduates, precipitating jar, bunsen burner, florence flasks, worm condenser, mortars, metric weights, etc.

The Laboratory for Commercial Manufacturing

This laboratory, recently installed, is planned to afford practical experience to students in the handling and use of apparatus and machinery found in commercial work. Among the types are a porcelain-lined pebble mill, a pony mixer, an ointment mill, a drug mill, a pill coater, and a tablet machine. All are power driven. In addition there is a vacuum pan complete with condenser and electric pump, a rotary sifter and mixer, a large tincture press, five and ten gallon enameled iron percolators, a drying oven, sieves, and smaller pieces. Electricity, gas, hot and cold water and compressed air are supplied. Work-stands are provided for seventy-two students.

The Laboratory for Pharmacognosy

The Laboratory for Pharmacognosy, twenty-four by forty feet in size, is situated on the first floor of the College Building. Desks are provided for forty-eight students. Forty-eight compound microscopes, magnifying from seventy-five to five hundred diameters, form a part of the general equipment. Each student is provided with an individual outfit, consisting of reagents, mounting media, slides, covers, forceps, section cutter, magnifier, and other necessary apparatus. This room also contains the materia medica collection of six hundred samples of crude drugs.

THE BACTERIOLOGICAL LABORATORY

The Bacteriological Laboratory is situated on the fourth floor of the College Building and has accommodations for thirty-eight students. The equipment includes microscopes with immersion objectives and Abbe condensers. Sterilizers, incubators, and the usual bacteriological equipment are provided.

THE QUALITATIVE LABORATORY

The Qualitative Laboratory is situated on the third floor of the Laboratory Building, is forty-four by thirty-three feet in size, has light from three sides, is provided with work-stands for sixty-four students, and has twice this number of lock-drawers and lock-cupboards. Each work-stand is supplied with gas, water, acid-proof sink, and retort stand. Aside from the individual kit furnished to each student, the laboratory is provided with other apparatus for use by the students in common. Fume hoods, into which gas, compressed air and hydrogen sulphide are piped, are provided.

THE QUANTITATIVE LABORATORY

The Quantitative Laboratory is situated on the second floor of the Laboratory Building, is thiry-three by forty-four feet in size, and has light from three sides. It is supplied with work-stands for classes of seventy-four students, each stand having a complete equipment. Connected with this laboratory is a smaller room provided with two electric ovens, a centrifuge, a Kjeldahl apparatus, and several drying ovens. Also a balance room equipped with fifteen analytical balances for class use.

THE LIBRARY

The Library adjoins the office on the first floor of the College Building. It contains about four thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

THE MUSEUM

The Museum occupies two large rooms on the third floor of the College Building. It is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

THE STUDENTS' ROOM

A locker room for students is provided with 250 steel lockers for coats, hats, and books. A lounging room for the men and a rest room for women students are also provided.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. HIGH SCHOOL GRADUATION

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from List C.

An applicant who *has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

2. PRESCRIBED SUBJECTS

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

LIST A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

3. ELECTIVES

The remaining ten units must be selected from List B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B

		Units
Latin	36 to 144 weeks	1-4
Greek	36 to 144 weeks	1-4
French	36 to 144 weeks	1-4
German	36 to 144 weeks	1-4
Spanish	36 to 144 weeks	1-4
Italian	36 to 72 weeks	1-2

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

Norwegian	36 to 72 weeks	1-2
Swedish	36 to 72 weeks	1-2
Polish	36 to 72 weeks	1-2
English (4th unit)	36 weeks	1
Advanced algebra	18 or 36 weeks	½-1
Solid geometry	18 weeks	½
Trigonometry	18 weeks	½
History[1]	36 to 144 weeks	1-4
Civics	18 or 36 weeks	½-1
Economics and economic history	18 or 36 weeks	½-1
Commercial geography	18 or 36 weeks	½-1
Physiography	18 or 36 weeks	½-1
Physiology	18 or 36 weeks	½-1
Zoology	18 or 36 weeks	½-1
Botany	18 or 36 weeks	½-1
Physics	36 to 72 weeks	1-2
Chemistry	36 to 72 weeks	1-2

4. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]

Astronomy	18 weeks	½
Geology	18 or 36 weeks	½-1
Agriculture	36 to 108 weeks	1-3
Bookkeeping	36 weeks	1
Business law	18 weeks	½
Commercial arithmetic (accepted only when preceded by one year of work in high school mathematics)	18 weeks	½
Domestic science	36 to 108 weeks	1-3
Drawing, art and design	18 or 36 weeks	½-1
Drawing, mechanical	18 or 36 weeks	½-1
Manual training[3]	36 to 72 weeks	1-2
General science	18 to 36 weeks	½-1
Foreign language (other than those of List B)		1-2
Music	36 to 72 weeks	1-2
Shorthand and typewriting[4]	36 to 72 weeks	1-2

HOW THE ENTRANCE REQUIREMENT MAY BE MET

The high-school requirement may be satisfied either by certificate or by examination.

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

[4] These two subjects must be offered together; no credit is given for either one offered separately.

HIGH-SCHOOL CREDITS BY CERTIFICATE

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.
2. From schools accredited by the North Central Association of Colleges and Secondary Schools.
3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From schools approved by the New England College Entrance Certificate Board.
6. From schools accredited by the Southern Association of Colleges and Secondary Schools.
7. From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

HIGH-SCHOOL CREDITS BY EXAMINATION

High-school credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.
2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.
3. In the examinations conducted in June of each year by the College Entrance Examination Board.
4. In the examinations conducted by the Regents of the University of the State of New York.

NON-ILLINOIS STUDENTS

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten per cent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.*, in a system of A, B, C, and D, with D as the passing grade, the average must be C.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

THE DEGREE OF GRADUATE IN PHARMACY

The candidate for the degree of Graduate in Pharmacy must be twenty-one years of age, and must have attended two annual courses of instruction, the first of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age will receive a certificate and will be awarded the diploma when this requirement is satisfied.

THE DEGREE OF PHARMACEUTICAL CHEMIST

The candidate for the degree of Pharmaceutical Chemist must have successfully completed the course leading to the degree of Graduate in Pharmacy in this school or in some other recognized college or school of pharmacy whose requirements for admission and graduation are equivalent to ours. He must have satisfactorily completed the work of the third year at this school.

COURSES OF INSTRUCTION

THE TWO-YEAR COURSE

The course leading to the degree of Graduate in Pharmacy appeals especially to young men and women who desire to qualify themselves to become pharmacists. The instruction is so arranged as to require the attendance of first-year students on three days each week; second year students on five days.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the compound microscope, etc. Much time is devoted to laboratory practice.

THE THREE-YEAR COURSE

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy, and bacteriology, or to prepare themselves for positions in food and drug laboratories, the School offers a three-year course leading to the degree of Pharmaceutical Chemist. This course comprises three annual sessions of thirty-four weeks each, the first two years being identical with the course for the degree of Graduate in Pharmacy. The third year consists largely of laboratory practice.

PHARMACY

Professor SNOW, Dr. VAHLTEICH, Mr. MARTIN, Mr. SKOGLUND

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal relations, metrology, and specific gravity; pharmaceutical arithmetic; conversion of avoirdupois and apothecaries' weights into metric equivalents and *vice versa;* drills in percentage and alligation as applied to pharmaceutical preparations, processes of operative pharmacy; use of apparatus, utensils, and devices employed in pharmaceutical practice; heat, its source and uses; solution, its phenomena, effects and causes; filtration, extraction, and their modifications. Three lectures and recitations each week. First semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

2. *Galenical Pharmacy.*—Solutions and mixtures official in the United States Pharmacopoeia and National Formulary; methods of preparation and strength; synonyms, common uses, and doses. Three lectures and recitations each week. First half, second semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

3. *Pharmacy of the Inorganic Substances.*—The elements, inorganic compounds and preparations; pharmaceutical and technical uses; posology and therapeutic applications. Three lectures and recitations each week. Second half, second semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

4. *Pharmaceutical Laboratory.*—Preparations illustrative of the various processes and operations outlined in Pharmacy 1. One laboratory period of three hours each week. First semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

5. *Pharmaceutical Laboratory.*—Manufacture of the simpler preparations of the United States Pharmacopoeia and National Formulary. One laboratory period of three hours each week. Second semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

6. *Dispensing.*—Preparation of the most important solutions and mixtures of the United States Pharmacopoeia and the National Formulary, intended for extemporaneous compounding in prescription form. One laboratory period of one hour each week. Second semester. Professor SNOW, Mr. MARTIN, Mr. SKOGLUND.

SECOND YEAR

7. *Galenical Pharmacy.*—A continuation of Pharmacy 2. Infusions, decoctions, tinctures, fluid extracts and resins. Preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets and tablets. Preparations for external use: ointments, cerates, suppositories, and plasters. Three lectures and recitations each week. First semester. Professor SNOW, Dr. VAHLTEICH.

8. *Organic Substances.*—Preparation, purification, identity, purity, and strength, pharmaceutical preparations, medicinal uses, and doses. Three lectures and recitations each week. Second semester. Professor SNOW, Dr. VAHLTEICH.

9. *Pharmaceutical Laboratory.*—Preparation of such mixtures of solids for internal and external use as are adapted to manufacture on a small scale and to be kept on hand in the pharmacy. One laboratory period of four hours each week. Both semesters. Professor SNOW, Dr. VAHLTEICH, Mr. MARTIN, Mr. SKOGLUND.

10. *Dispensing.*—Preparation of mixtures adapted to extemporaneous compounding. Typical prescriptions, methods for the prevention or modification of incompatibilities. Drills in prescription reading, Latinity and abbreviations, foreign synonyms, directions, and posology. One lecture or recitation and one laboratory period of two hours each week. Both semesters. Professor SNOW, Dr. VAHLTEICH, Mr. MARTIN, Mr. SKOGLUND.

THIRD YEAR

11. *Operative Pharmacy.*—Determination of physical constants. Manufacture of preparations of the United States Pharmacopoeia and National Formulary; application of tests for purity and identity; extra-official preparations employed in this country and abroad. One lecture or recitation and three laboratory periods of three hours each week. First semester. Professor SNOW, Dr. VAHLTEICH.

12. *Manufacturing Pharmacy.*—Preparation of potent tinctures, fluid-extracts, resins, alkaloids, and other active principles; application of commercial assay processes. One lecture or recitation and three laboratory periods of three hours each week. First half, second semester. Professor SNOW, Dr. VAHLTEICH.

13. *Manufacturing Pharmacy.*—Commercial and industrial methods for the manufacture of pills, tablets, ointments, effervescent salts, extracts, and dermatological preparations. An opportunity is afforded the student to use commercial labor-saving machinery. Manufacture and testing of organic preparations. One lecture or recitation and three laboratory periods of three hours each week. Second half, second semester. Professor SNOW, Dr. VAHLTEICH.

CHEMISTRY

Professor CLARK, Assistant Professor WEAVER, Mr. WEBSTER, Mrs. STOGIS

FIRST YEAR

1. *Theoretical Chemistry.*—General principles of chemistry in connection with the non-metallic elements; nature of acids, bases, and salts from the standpoint of the

modern theories of ionization and dissociation. Two lectures, one recitation each week. First semester. Professor Clark, Assistant Professor Weaver.

2. *General Chemistry.*—A study of the metals, in which the theories and principles of chemistry learned in course one are applied. Two lectures, one recitation each week. Second semester. Professor Clark, Assistant Professor Weaver.

3. *Qualitative Analysis.*—Identification of the various inorganic acid radicals and the more common metals; the examination of about thirty unknown mixtures; the special qualitative tests of the United States Pharmacopoeia; examination of medicinal chemicals for identity and purity. One lecture and one laboratory period of two hours each week. First semester. Assistant Professor Weaver, Mr. Webster.

4. *Qualitative Analysis.*—A continuation of Chemistry 3. One lecture and one laboratory period of three hours each week. Second semester.
Assistant Professor Weaver, Mr. Webster.

Second Year

5. *Organic Chemistry.*—A systematic course in the study of the carbon compounds. Simple hydrocarbons and their derivatives; alcohols, ethers, aldehydes, acids, esters, and carbohydrates. Two lectures and one recitation each week. First semester.
Professor Clark, Assistant Professor Weaver.

6. *Organic Chemistry.*—Aromatic hydrocarbons and their derivatives; synthetic remedies and alkaloids. Two lectures, one recitation each week. Second semester.
Professor Clark, Mr. Webster.

7. *Elementary Quantitative Analysis.*—Typical examples of gravimetric analysis as applied to the determination of the purity and strength of medicinal substances. Two lectures or recitations and two laboratory periods of three hours each week. First semester. Professor Clark, Mr. Webster.

8. *Quantitative Analysis.*—Volumetric processes of the United States Pharmacopoeia. Analysis of organic substances and alkaloids. Two lectures or recitations and two laboratory periods of three hours each week. Second semester.
Professor Clark, Mr. Webster.

Third Year

9. *Organic Chemistry.*—Organic methods. Qualitative detection of elements. Synthesis of typical compounds. One lecture or recitation and two laboratory periods of three hours each week. First semester. Professor Clark, Mr. Webster.

10. *Advanced Quantitative Analysis.*—A continuation of Chemistry 7. Uranalysis is included. One lecture or recitation and two laboratory periods of three hours each week. First semester. Professor Clark, Mr. Webster.

11. *Food Analysis.*—Alcohols, carbohydrates, oils, fats, flavors, colors, preservatives. One lecture or recitation and two laboratory periods of four hours each week. Second semester. Professor Clark, Mr. Webster.

12. *Alkaloids.*—Alkaloidal assay methods of the United States Pharmacopoeia together with a general survey of the constitution and behavior of alkaloids. One lecture or recitation and two laboratory periods of three hours each week. Second semester. Professor Clark, Mr. Webster.

Materia Medica and Botany

Professor Day, Assistant Professor Gathercoal, Mr. Wirth, Dr. Groot,
Mr. Dorjahn, Miss Stuchlik

First Year

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Two lectures, one recitation and one laboratory period of one hour each week. First semester. Professor Day, Mr. Wirth, Mr. Dorjahn.

2. *Plant Histology.*—The microscopic structure of plants; the technic of the microscope; the operations of lighting, focusing, drawing, measuring, cutting, mounting objects; the application of micro-chemical tests, staining, etc. One laboratory period of two hours each week. First semester.

Assistant Professor Gathercoal, Mr. Wirth, Mr. Dorjahn.

3. *Plant Histology.*—A continuation of Botany 2. One laboratory period of two hours each week. Second semester.

Assistant Professor Gathercoal, Mr. Wirth, Mr. Dorjahn.

4. *Physiology and Hygiene.*—A general course with instruction in caring for emergency cases. Two lectures and one recitation each week. First semester.

Dr. Groot.

5. *Materia Medica.*—General principles of materia medica; classification of medicines based on therapeutic action; incompatible drugs, posology and toxicology. Two lectures, and one recitation, each week. Second semester. Professor Day.

6. *Pharmacognosy.*—A laboratory study of crude drugs including their recognition, description and characteristic features. The drugs derived from the cryptogams, the gymnosperms and the monocotyledons. One hour recitation and one hour laboratory each week. Second semester.

Assistant Professor Gathercoal, Mr. Wirth, Mr. Dorjahn.

Second Year

7. *Materia Medica.*—Plant drugs in botanic sequence; animal drugs; titles, synonyms, collection, preservation, standardization, therapeutic use, dose, and preparations. Two lectures and one recitation each week. Both semesters. Professor Day.

8. *Pharmacognosy.*—A laboratory study, a continuation of Pharmacognosy 6. Drugs derived from the dicotyledons, and including, in addition thereto, methods employed for detection of adulterations in powdered drugs. Two laboratory periods of two hours each and one recitation each week. One and one-third semesters.

Mr. Wirth, Mr. Dorjahn.

9. *Bacteriology.*—Characteristics of bacteria; morphology, structure, and classification; chemical composition, vital phenomena, and chemical effects. Relation of bacteria to disease; theories of infection and immunity; ferments, ptomaines, toxins and antitoxins. Action of antiseptics, disinfectants, and bactericidal substances. Preparation of culture media and staining solutions; methods of cleaning and sterilizing glassware; methods of making plate cultures and colonies; technic of cover-glass slips. One lecture or recitation and three laboratory periods of three hours each week. Two-thirds semester. Assistant Professor Gathercoal, Miss Stuchlik.

Third Year

10. *Applied Microscopy.*—A study of important powdered drugs and spices, with their substitutes and adulterants; practice in technical methods employed in the

examination; micrometry, use of the micropolariscope, application of special reagents, etc.; the microscopic examination and indentification of hair, fibers, and textiles, urinary sediments, blood, pus, tubecasts, and crystalline substances. One lecture or recitation and two laboratory periods of three hours each week. First semester.

Assistant Professor GATHERCOAL, Mr. WIRTH.

11. *Bacteriology.*—A course in sanitary bacteriology, and the mycology and bacteriology of foods and drugs. Causal relation of microorganisms to disease; methods of determining the bacteria of milk and water; valuation of disinfectants; the methods of sterilization and diagnosis by means of bacterial cultures. Two hours of lectures and recitations, seven hours of laboratory each week. Second half, second semester.

Assistant Professor GATHERCOAL.

GENERAL INFORMATION

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships, apply to the Registrar of the University, Urbana.)

The Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Conference of Pharmaceutical Faculties. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

Woman's Loan Fund

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115.00, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116.00 and in 1923, $360.00, to this fund. With accumulated interest the total amount in the fund is $605.34. This fund is to be lent to one or two deserving students, men or women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within three years for a junior student and within two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Honors and Prizes

Pharmacy Prize.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

Chemistry Prize.—Mr. Leo L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

General Prize.—Mr. Oscar Hodel, Mr. Elmer Hodel and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

American Pharmaceutical Association Memberships.—Three such memberships are offered as prizes by members of the faculty: One is awarded for excellence in practical pharmacy, the second for excellence in chemistry, the third for excellence in pharmacognosy.

Mr. William Gray offers a membership in the American Pharmaceutical Association as a prize for excellence in dispensing.

FEES AND EXPENSES

ILLINOIS STUDENTS

	Course for Graduate in Pharmacy				Course for Pharmaceutical Chemist	
	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	....	....	....	....	....
Tuition	47.50	$47.50	$47.50	$47.50	$47.50	$47.50
Laboratory fee[2]	15.00	15.00	15.00	15.00	15.00	15.00
Laboratory deposit[2]	15.00	....	15.00	....	15.00	....
Diploma	....	....	....	10.00	....	10.00
	$87.50	$62.50	$77.50	$72.50	$77.50	$72.50

NON-ILLINOIS STUDENTS

Non-Illinois students pay fees as indicated above except that the tuition fee is $60.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10.00. Original transcript of record, $1.00;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of one dollar will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Exceptions to this rule will be made only with the approval of the proper administrative officer. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the school within ten days after the beginning of the instruction the total amount of his fees except the matriculation fee will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees paid will be refunded.

BOARD AND LODGING.—The expense of board and room together is from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary. Students are advised to defer engaging board and room until they arrive in the city, when arrangements can be made readily and quickly.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals and other material consumed by the student in the laboratories. The laboratory deposit covers breakage or damage to apparatus furnished by the school. From this deposit will be deducted the charges for apparatus broken, missing or not returnable, also a locker fee of $1 if the student uses a locker in the coatroom.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

Books.—The expense of books is moderate. About forty-five dollars will purchase all the books required for the Ph.G. course. For the Ph.C. course the expenditure for books will be somewhat more.

Chicago Branch of the A. Ph. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temporate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

For further information or for a matriculation blank, address

W. B. Day, *Dean*
701 South Wood St., Chicago, Ill.

PROVISIONAL SCHEDULE—FIRST YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9 to 10 a. m. Chemistry Lecture Section A Pharmacy Recitation Section 3	9 a. m. to 12 m. Histology Laboratory Extra Sections 3 and 4	9 to 10 a. m. Chemistry Lecture Section B Pharmacy Recitation Section 1	9 a. m. to 12 m. Histology Laboratory Extra Sections 1 and 2	9 to 10 a. m. Botany Lecture
10 to 11 a. m. Pharmacy Lecture		10 to 11 a. m. Botany Lecture		10 to 11 a. m. Chemistry Recitation Section 3 Chemistry Recitation Section 1
11 a. m. to 12 m. Chemistry Lecture Section B Botany Recitation Section 1	11 a. m. to 12 m. Pharmacy Recitation Section 2	11 a. m. to 12 m. Chemistry Lecture Section A Botany Recitation Section 3	11 a. m. to 12 m. Chemistry Recitation Section 2	11 a. m. to 12 m. Pharmacy Lecture
1 to 2 p. m. Physiology Lecture	1 to 2 p. m. Physiology Recitation Section 3	1 to 2 p. m. Physiology Lecture	1 to 2 p. m. Physiology Recitation Section 2	1 to 2 p. m. Physiology Recitation Section 1 Botany Recitation Section 2
2 to 5 p. m. Chemistry Laboratory Section 1 Pharmacy Laboratory Section 4 Histology Laboratory Section 3	2 to 5 p. m. Chemistry Laboratory Section 2 Pharmacy Laboratory Section 3 Histology Laboratory Section 4	2 to 5 p. m. Chemistry Laboratory Section 4 Pharmacy Laboratory Section 2 Histology Laboratory Section 1	2 to 5 p. m. Chemistry Laboratory Section 3 Pharmacy Laboratory Section 1 Histology Laboratory Section 2	

PROVISIONAL SCHEDULE—SECOND YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8 a. m. to 12 m. Pharmacognosy Laboratory By Sections	9 to 10 a. m. Chemistry Recitation	9 a. m. to 12 m. Pharmacognosy Laboratory and Recitation and Bacteriology Laboratory By Sections	9 to 10 a. m. Pharmacy Recitation	9 a. m. to 12 m. Bacteriology Laboratory and Pharmacognosy Laboratory and Recitation By Sections
9 a. m. to 12 m. Bacteriology Laboratory By Sections			10 to 11 a. m. Chemistry Lecture	
1 to 2 p. m. Chemistry Lecture	10 to 11 a. m. Pharmacy Lecture			
2 to 3 p. m. Materia Medica Recitation	11 a. m. to 12 m. Materia Medica Lecture	1 to 2 p. m. Chemistry Lecture	11 a. m. to 12 m. Materia Medica Lecture	
3 to 4 p. m. Bacteriology Recitation By Sections	1 to 4 p. m. Dispensing Laboratory	2 to 5 p. m. Chemistry Laboratory	1 to 2 p. m. Pharmacy Lecture	1 to 2 p. m. Chemistry Lecture
			2 to 5 p. m. Pharmacy Laboratory	2 to 5 p. m. Chemistry Laboratory

DEGREES, 1924

Degree of Graduate in Pharmacy

Thomas Raymond Adams
Abe Meyer Alderman
Harry Fielding Au Buchon
Jacob Beller
Leo Berlin
Theodore James Besta
Ladislaus Alois Bilski
Ralph Guy Blann
Eugene Isadore Bogot
Homer John Brethauer
Samuel Adams Brody
Harvey Eugene Brown
Milton Edward Burns
Ocie Romey Burns
David Paul Checklin
Joseph Milton Choisser
Thomas George Crawford
John French Crooks
Rudolph John Doubek
Olyn Edward Eaton
Martin H. Eisenbart
John Emmett Factor
Edward Falick
Hyman Herman Flaschen
Minnie Galibter
Roscoe William Gillmore
David Seymour Goldberg
Bernard Gustave Goldsmith
David Goldstein
Hilda Goldstein
Jack Gordon
Paul Jennings Gregg
Sidney Grinker
Harold H. Haeberle
Viola Rose Hammer
James Joseph Hennessy
Anthony Vincent Indovina
Albert Gregg Irving
Arthur Elmer Jabusch
Charles Andrew Jakubec
Maurice Leon Kaplan
Ralph Elbert Keever
Arvil Summerill Kimbro
Eli Kirshenbaum
Irvin Peter Klink
James Charles Kodera
Louis Henry Kopp
Helen Kulwinsky
Hyman Boris Lachov
Samuel Levy
Harold Phenoy Lizer
Sam Lowis
Charles Byron McDermott
Esther Meyer
William Grant Meyer
Conrad S. Mila
Edward Mintz
Solomon Bernard Mirsky
John Joseph Mulkern
Robert C. Nagel
Jacob Newlander
Albert Edward Nordstrom
George William Novotny
Joseph Charles Ocenasek
Edgar Marion Ohnstein
David Oliva
Roger Wolcott Perkins
David Pomerantz
Aaron Pritikin
Otis Joseph Rene
John James Rericha
Gerald Carte Roche
Leonard Rosefield
Isadore Rosen
Isadore Rosenband
Rebecca Rosenblum
Louis Rubin
John Smyth Russell
Walter Williamson Seibert
Martin Henry Seifert
Louis B. Shapiro
Ben Bernard Shugan
William Silberman
David Soldinger
Allen Francis Spore
Walter Anthony Staszak
John C. Stokes, Jr.
John Edward Testin
Leon Blake Thomas
Anton Otto Tysl

Chester Ugansky
Charles Louis Van Der Aue
Frank Albert Warczak
Max Weinstein
Henry Spaulding Weiss
Harry Arthur Wenisch
Edward Arthur Wester
Harold Alfred Wild
Lester Newton Wilson
Harold Winsberg
Raymond D. Wisler
Waide Zehender
Bernard Becker (Class of 1923)
Jacob Berman (Class of 1923)
Francis Louis Burger (Class of 1923)
John James Eastabrooks (Class of 1923)
Michael Glickman (Class of 1923)
Nathan Handelman (Class of 1923)
Frank John Kinney (Class of 1923)
Edwin Pius Klocke (Class of 1923)
Clover Donat Lauber (Class of 1923)
Maurice Rabinowitz (Class of 1923)
Arthur Harry Reinstein (Class of 1923)
Charles Emmett Rutledge (Class of 1923)
Bernard Schiff (Class of 1923)
Irving Sloan (Class of 1923)
Sidney Manne Stone (Class of 1923)
Vivian Josephine Stuchlik (Class of 1923)
Frank Charles Tuma (Class of 1923)
Ralph Alva Wabel (Class of 1923)

CERTIFICATES

Carl Bertal Anderson
Leo Sidney Baewsky
Josephine Lorraine Bauml
Harry Berman
Harry Cooperman
Joseph Anthony DeGrazio
Maurice Engerman
Garford Richard Harris
Ruben Horwitz
Morris Bud Kallison
Isadore Kirschenbaum
Leslie James Kocour
Edward Kravetz
Morris Lieberman
Henry E. Painter
Walter August Piepho
Robert Nicholas Reis
Perry Rosenberg
Isadore Abraham Rosenblatt
Louis Roth
Raymond Rush
Harold Jay Shames
Louis Shapero
Samuel Solomon Shapiro
Samuel Sidney Tunick
George Yellen
Frank Charles Tuma (Class of 1923)
Ralph Alva Wabel (Class of 1923)

HONORS—SENIOR CLASS

The Leo L. Mrazek Prize—Mr. Sam Lowis
The Andrew Scherer Prize—Mr. Joseph C. Ocenasek
Hodel Brothers and Saltiel Prize—Mr. Louis H. Kopp
A.Ph.A. Membership in Pharmacy—Miss Rebecca Rosenblum
A.Ph.A. Membership in Materia Medica—Miss Esther Meyer
A.Ph.A. Membership in Chemistry—Mr. Martin Seifert
The Wm. Gray Membership A.Ph.A.—Mr. Grant Meyer

LIST OF STUDENTS 1923-1924

COURSE FOR GRADUATE IN PHARMACY

Seniors

Adams, Thomas Raymond	*Wilmette*
Alderman, Abe Meyer	*Chicago*
Anderson, Carl Bertal	*Chicago*
Au Buchon, Harry Fielding	*Chicago*
Baewsky, Leo	*Chicago*
Balais, Daniel Pavino	*Lucban, Tay, P. I.*
Barryte, William Bannister	*Chicago*
Bauml, Josephine Lorraine	*Chicago*
Beller, Jacob	*Chicago*
Berlin, Leo	*Chicago*
Berman, Charles	*Chicago*
Berman, Harry	*Chicago*
Berry, Lucina Scott	*Ashley*
Besta, Theodore James	*Chicago*
Bilski, Ladislaus Aloysius	*Cicero*
Blann, Ralph Guy	*Vincennes, Indiana*
Bogot, Eugene Isadore	*Chicago*
Brethauer, Homer John	*Nashville*
Brody, Samuel Adams	*Chicago*
Brown, Harvey Eugene	*Aurora*
Burns, Milton Edward	*Elgin*
Burns, Ocie Romey	*Chicago*
Checklin, David Paul	*Peoria*
Choisser, Joseph Milton	*Eldorado*
Cohl, Henry Alvin	*Chicago*
Cooperman, Harry	*Chicago*
Crawford, Thomas George	*Oak Park*
Crooks, John French	*Rensselaer, Indiana*
DeGrazio, Joseph Anthony	*Chicago*
Dieterichs, Clarence Edgar	*Chicago*
Doubek, Rudolph John	*Chicago*
Eaton, Olyn Edward	*DuQuoin*
Eisenbart, Martin Herbert	*Streator*
Engerman, Maurice	*Chicago*
Factor, John Emmett	*Mt. Sterling*
Falick, Edward	*Chicago*
Flaschen, Hyman Herman	*Chicago*
Fogelson, Bernard Charles	*Chicago*
Galibter, Minnie	*Chicago*
Gillmore, Roscoe William	*Mattoon*
Glass, Isaac Merle	*Springfield*
Goldberg, David Seymour	*Chicago*
Goldsmith, Bernard Gustave	*Chicago*

Goldstein, David	*Chicago*
Goldstein, Hilda	*Chicago*
Gordon, Jack	*Chicago*
Gregg, Paul Jennings	*Carbondale*
Grinker, Sidney	*Chicago*
Gwizdalski, Casimir Bronislas	*Chicago*
Haeberle, Harold H.	*Broken Bow, Nebraska*
Hammer, Viola Rose	*Glencoe*
Harris, Garford Richard	*Carterville*
Harrison, James Elsworth	*Harrisburg*
Hennessy, James Joseph	*Chicago*
Herman, Mandel	*Chicago*
Hodosh, Louis Irving	*Chicago*
Horwitz, Ruben	*Chicago*
Indovina, Anthony Vincent	*Chicago*
Irving, Albert Gregg	*Chicago*
Jabusch, Arthur Elmer	*Chicago*
Jakubec, Charles Andrew	*Chicago*
Kallison, Morris Bud	*Chicago*
Kaplan, Maurice Leon	*Chicago*
Keever, Ralph Elbert	*Marissa*
Kessler, Oscar Bernard	*Chicago*
Kimbro, Arvil Summerill	*Anna*
Kirschenbaum, Isadore	*Chicago*
Kirshenbaum, Eli	*Chicago*
Klink, Irvin Peter	*Chicago*
Kocour, Leslie James	*Chicago*
Kodera, James Charles	*Chicago*
Kopp, Louis Henry	*Athens*
Kravetz, Edward	*Chicago*
Kulwinsky, Abe Mandel	*Chicago*
Kulwinsky, Helen	*Chicago*
Lachov, Hyman Boris	*Chicago*
Levy, Samuel	*Chicago*
Lieberman, Morris	*Chicago*
Lizer, Harold Phenoy	*Mt. Morris*
Lowis, Sam	*Chicago*
McDermott, Charles Byron	*Morris*
McIntyre, Melvin Trout	*Bloomington*
Meyer, Esther	*Chicago*
Meyer, Grant	*Ottawa*
Mila, Conrad Stanley	*Chicago*
Mintz, Edward	*Chicago*
Mirsky, Solomon Bernard	*Chicago*
Mulkern, John Joseph	*Chicago*
Nagel, Robert Christian	*Highland*
Naumann, Walter Herman	*Chicago*
Newlander, Jacob	*Chicago*
Nordstrom, Albert E.	*Waukegan*
Noskin, Samuel	*Chicago*

Novotny, George William	*Chicago*
Obartuch, Henry William	*Chicago*
Ocenasek, Joseph Charles	*Chicago*
Ohnstein, Edgar Marion	*Chicago*
Oliva, David	*Chicago*
Painter, Henry Ellis	*Whitehall, Montana*
Perkins, Roger Wolcott	*Canton*
Piepho, Walter August	*Chicago*
Pomerantz, Dave	*Chicago*
Pritikin, Aaron	*Chicago*
Reis, Robert Nicholas	*Chicago*
Rene, Otis Joseph	*Chicago*
Rericha, John James	*Chicago*
Roche, Gerald Parte	*Chicago*
Rosefield, Leonard	*Chicago*
Rosen, Isadore	*Chicago*
Rosenband, Isadore	*Chicago*
Rosenberg, Perry	*Chicago*
Rosenblatt, Isadore Abraham	*Chicago*
Rosenblum, Rebecca	*Chicago*
Roth, Louis	*Chicago*
Rubin, Louis	*Chicago*
Rush, Raymond	*Chicago*
Russell, John Smyth	*Chicago*
Searls, Floyd Dewey	*Amboy*
Seibert, Walter Williamson	*Ashley*
Seifert, Martin Henry	*Benson*
Shames, Harold Jay	*Chicago*
Shapero, Louis	*Chicago*
Shapiro, Louis Barney	*Chicago*
Shapiro, Samuel Solomon	*Chicago*
Shugan, Ben Bernard	*Chicago*
Silberman, William	*Chicago*
Soldinger, David	*Chicago*
Spore, Allen Francis	*Chicago*
Staszak, Walter Anthony	*Chicago*
Steinberg, Rose	*Chicago*
Stokes, John Charles	*Chicago*
Szymanski, Richard Thomas	*Cicero*
Testin, John Edward	*Joliet*
Thomas, Leon Blake	*Urbana*
Thompson, Arnold Albert	*Dahlgren*
Tunick, Samuel Sidney	*Chicago*
Turek. Isador Edward	*Chicago*
Tweedie, Forrest Joseph	*Chicago*
Tysl, Anton Otto	*Chicago*
Ugansky, Chester	*Lyons*
Vanderaue, Charles Louis	*Chicago*
Warczak. Frank Albert	*Chicago*
Weiner, Hyman Irwin	*Chicago*

Weinstein, Max	*Chicago*
Weiss, Henry Spaulding	*Chicago*
Wenisch, Harry Arthur	*Chicago*
Wester, Edward Alfred	*Chicago*
Westenberger, Fred George	*Chicago*
Wild, Harold Alfred	*Joliet*
Wilson, Lester Newton	*Chicago*
Winsberg, Harold	*Chicago*
Wisler, Raymond	*Chicago*
Yellen, George	*Chicago*
Zehender, Waide	*Quincy*
Zeiler, Edward Henry	*Chicago*
Zeitlin, Ralph	*Chicago*

JUNIORS

Adkisson, Charles Howard	*Chicago*
Alexander, Richard Joy	*Streator*
Almond, Albert N.	*Aurora*
Anderson, Ralph Edwin	*Farmington*
Anderson, Vernon Orville	*Geneva*
Applegate, Kenneth Harold	*Macomb*
Bach, Peter Alexander	*Chicago*
Balin, Meyer	*Chicago*
Barron, Raymond	*Ottawa*
Bashaw, Charles Wilbur	*Savanna*
Bass, Paul Brian	*Olney*
Basta, Rudolph	*Chicago*
Baumrucker, Edwin Ferdinand	*Chicago*
Beecher, Mervin Newton	*Yorkville*
Benson, William Randolph, Jr.	*Chicago*
Bobek, Edward Frank	*Chicago*
Borg, Joseph Samuel	*Chicago*
Bost, Ward Ellis	*Hillsboro*
Brown, Jerald Meyer	*Chicago*
Brown, Leo	*Chicago*
Bryant, William Shepard	*Chicago*
Burger, Frederick Raphield	*Elgin*
Byrne, Emmet Robert	*Chicago*
Caron, Eldred Joseph	*Oak Park*
Caron, Evelyn Mazie	*Oak Park*
Castellano, Michael	*Chicago*
Chamberlin, Lloyd Edwin	*Calhoun*
Chandler, Joel Wiant	*Area*
Chez, Maurice Miller	*Chicago*
Choisser, Cuthbert Welcome	*Eldorado*
Cizek, Clarence Joseph	*Chicago*
Clemmons, Daniel Grant	*Barron, Wisconsin*
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THE REGISTRAR
Urbana, Illinois

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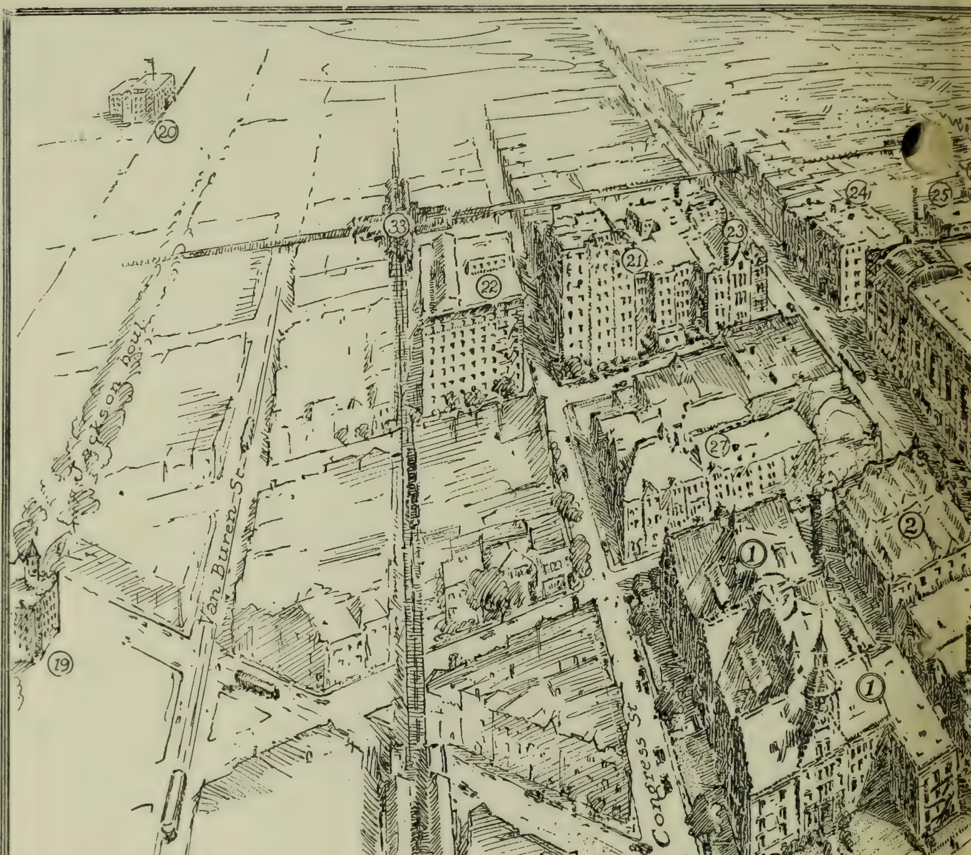
UNIVERSITY OF ILLINOIS

SCHOOL OF PHARMACY

1925-1926

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO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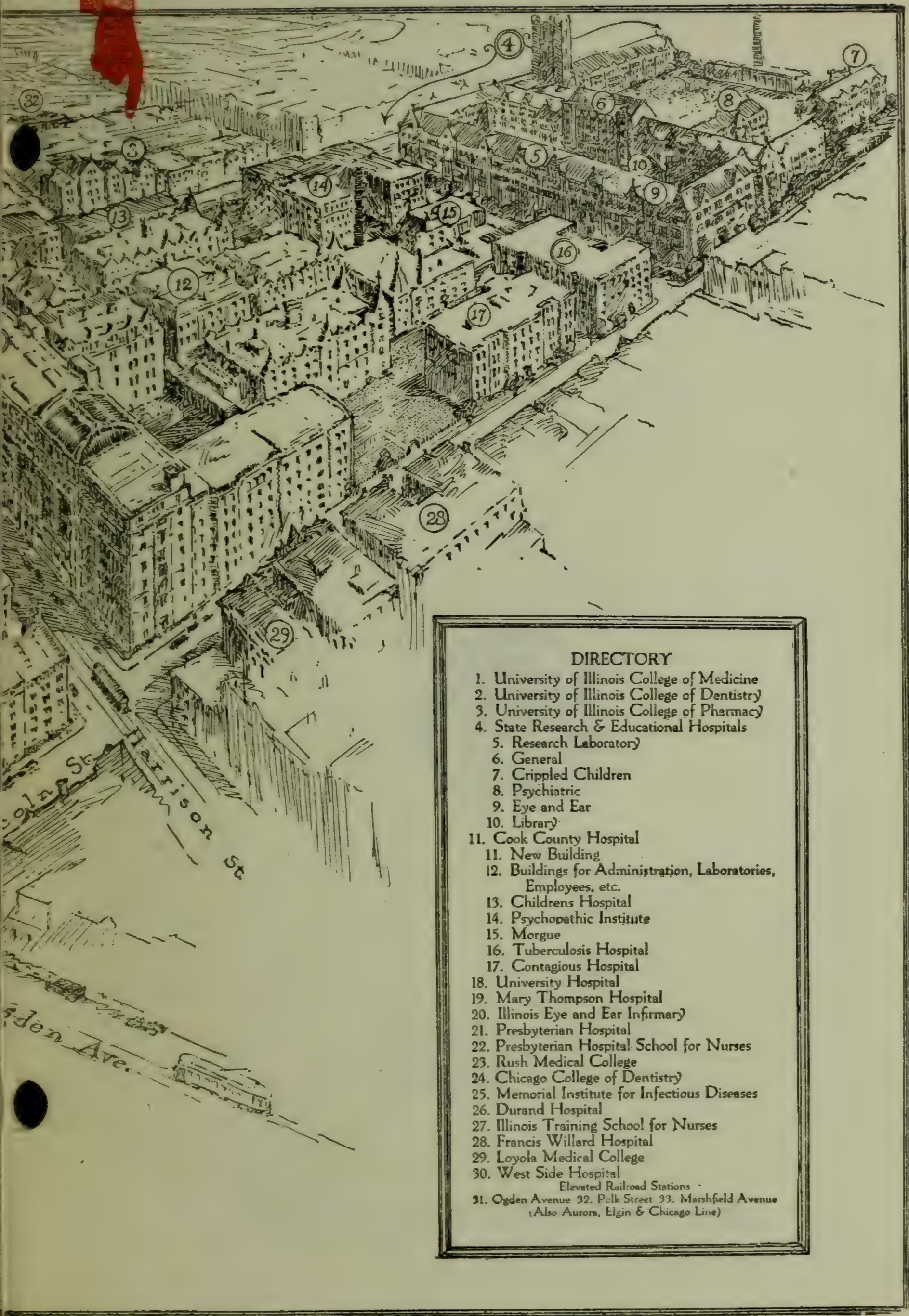
MEDICAL CENTER OF CHICAGO
Birds eye view
of principal
buildings



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(CHICAGO COLLEGE OF PHARMACY)

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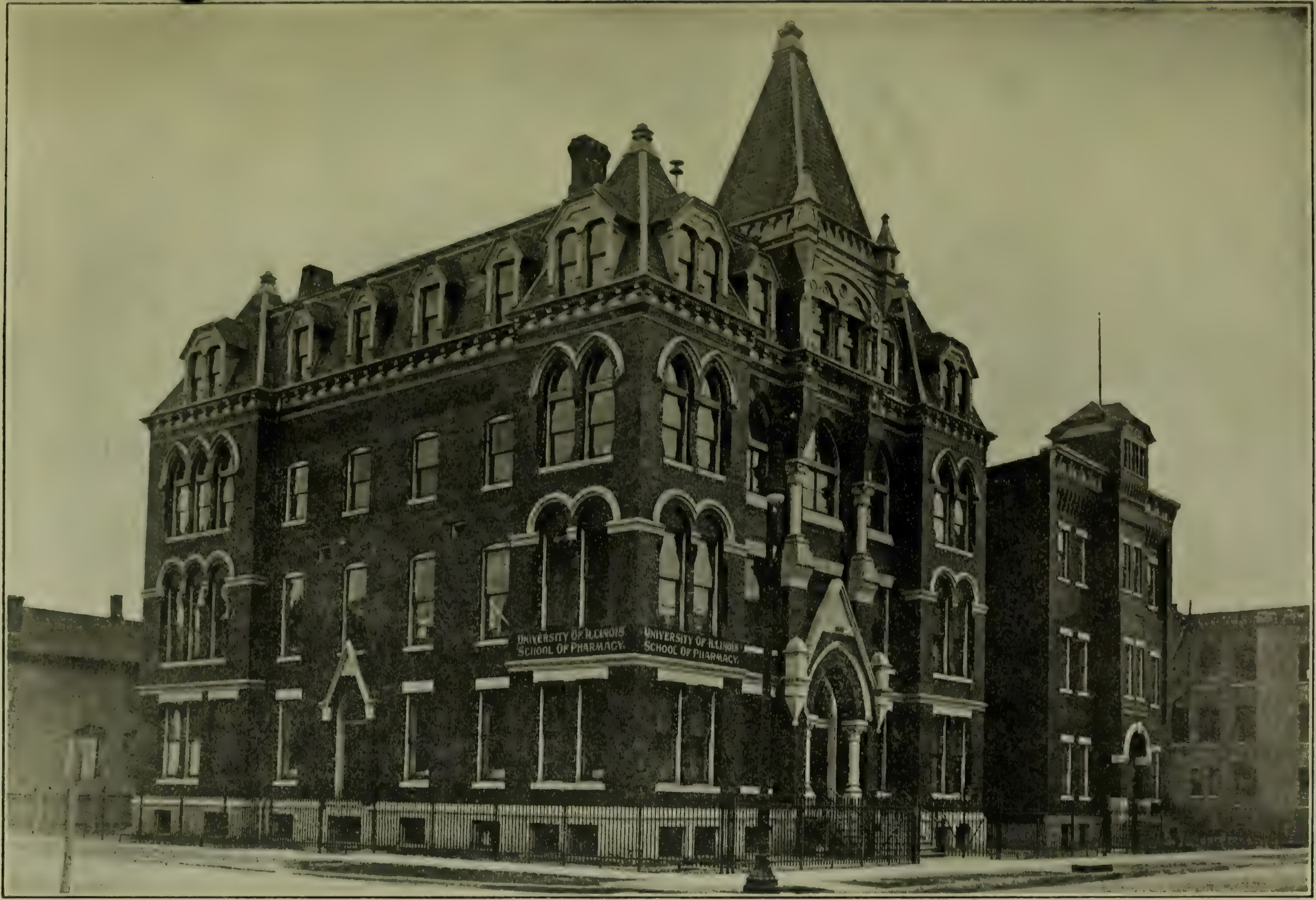
CHICAGO, ILLINOIS

REGISTER FOR 1924-1925
SESSION OF 1925-1926

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

This School holds membership in the American Conference of Pharmaceutical Faculties. The object of the conference is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this conference higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the conference is evidence of this influence.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CALENDAR—1925-1926

FIRST SEMESTER

September 14-18—Monday-Friday
Entrance Examinations

October 5—Monday, 8 a. m.-5 p. m.
Registration and payment of fees

October 6—Tuesday, 9 a. m.
Semester instruction begun.

November 25—Wednesday 12 m.
Thanksgiving recess begun.

November 30—Monday, 9 a. m.
Instruction resumed.

December 23—Wednesday, 5 p. m.
Holiday recess begun.

January 4, 1926—Monday, 9 a. m.
Instruction resumed.

February 1-5—Monday-Friday
Semester Examinations.

SECOND SEMESTER

February 8—Monday, 8 a. m.-5 p. m.
Registration and payment of fees

February 11—Tuesday, 9 a. m.
Semester instruction begun.

February 22—Monday
Washington's Birthday.

April 1—Thursday, 5 p. m.
Easter recess begun.

April 5—Monday, 9 a. m.
Instruction resumed.

May 30—Sunday
Memorial Day.

May 24-June 4—Monday-Friday
Final Examinations.

June 10—Thursday
Alumni meeting.

June 11—Friday
Commencement Chicago Professional
Schools of the University.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the technical School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists elected by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Twelfth Street, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

ANNOUNCEMENT

The sixty-sixth annual course of instruction in the University of Illinois School of Pharmacy will begin Tuesday, October 5, 1925, at 9 o'clock in the morning.

The course will continue thirty-four weeks. The graduation exercises will be held with the other Chicago departments of the University on Friday, June 11, 1926.

This school offers to young men and young women the technical and scientific training necessary for the successful practice of pharmacy.

The demand for educated pharmacists is steadily increasing. This is due, in part, to the passage of Federal and State pure food and drug laws, which demand a higher degree of knowledge and skill, as well as greater care, from those who are entrusted with the responsible duties of preparing and dispensing medicines.

That the public is beginning to appreciate the importance of skilled and competent pharmaceutical service is shown by the progress of legislation increasing the educational requirements for those who desire to become pharmacists. In twenty states a diploma from a recognized school of pharmacy must be presented by the candidate before he is admitted to the licensing examination.

Young men and women of character, who are industrious and honest, who have or will develop business ability, and who possess adequate pharmaceutical training are constantly sought. The demand for such young men will always far exceed the supply, and their prospects for success in pharmacy are better today than ever before.

While the young man may reasonably expect to obtain valuable business experience in the drug store, his scientific training and technical skill are best acquired in the school of pharmacy. Under the guidance of experienced teachers he is grounded in the sciences upon which the art of pharmacy is based, while the laboratories afford opportunity for acquiring the technical skill needed in identifying, preparing, testing, and dispensing drugs and medicines.

Along related lines of activity, many opportunities for specialization are offered. Graduates in pharmacy are frequently sought by manufacturing pharmacists or wholesale druggists as well as for hospitals and dispensaries. Pharmaceutical chemists find employment in food and drug laboratories, in commercial chemistry, or in teaching. Not a few graduates continue their studies in medicine.

Location

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred one feet on Wood Street and one hundred twenty-four feet on Flournoy Street.

The College Buildings

The college buildings include two substantial brick structures, which are connected by a stair-tower building affording a corridor at each floor. Both have daylight from four sides and electric lights throughout, and are heated by steam.

The larger building, known as the College Building, is sixty by eighty feet square and four stories in height. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, a large auditorium, two smaller lecture halls, several preparation rooms and private laboratories for the teachers, students' rooms, and locker rooms.

The smaller building, known as the Laboratory Building, is forty-four by eighty-eight feet square and three stories in height. It contains the pharmaceutical laboratory, the laboratory for commercial manufacturing, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

THE LECTURE HALLS

The third and fourth floors of the College Building are largely occupied by an auditorium, capable of seating two hundred sixty persons. Preparation rooms for the teachers are immediately adjoining. On the second floor of the same building is a hall arranged in amphitheatre form and with a seating capacity of one hundred fifty. A smaller hall on the same floor is provided with school desks for ninety persons.

THE LABORATORIES

Six general laboratories for the large classes as well as several special laboratories are provided. The total capacity of the larger laboratories is about three hundred sixty students working at one time. The laboratories are provided with gas, electricity, hot and cold water, distilled water, and compressed air.

THE PHARMACEUTICAL LABORATORY

The Pharmaceutical Laboratory occupies a room thirty-two by fifty-one feet in size, situated on the first floor of the Laboratory Building and having windows on three sides. Work-stands are provided for sixty-eight students, with lockers for four times that number. Each work-stand is four feet long and is equipped with water, sink, sand bath, gas, retort stand, and water bath. The individual kit furnished to each student includes percolators, graduates, precipitating jar, bunsen burner, florence flasks, worm condenser, mortars, metric weights, etc.

THE LABORATORY FOR COMMERCIAL MANUFACTURING

This laboratory, recently installed, is planned to afford practical experience to students in the handling and use of apparatus and machinery found in commercial work. Among the types are a porcelain-lined pebble mill, a pony mixer, an ointment mill, a drug mill, a pill coater, and a tablet machine. All are power driven. In addition there is a vacuum pan complete with condenser and electric pump, a rotary sifter and mixer, a large tincture press, five and ten gallon enameled iron percolators, a drying oven, sieves, and smaller pieces. Electricity, gas, hot and cold water and compressed air are supplied. Work-stands are provided for seventy-two students.

THE LABORATORY FOR PHARMACOGNOSY

The Laboratory for Pharmacognosy, twenty-four by forty feet in size, is situated on the first floor of the College Building. Desks are provided for forty-eight students. Forty-eight compound microscopes, magnifying from seventy-five to five hundred diameters, form a part of the general equipment. Each student is provided with an individual outfit, consisting of reagents, mounting media, slides, covers, forceps, section cutter, magnifier, and other necessary apparatus. This room also contains the materia medica collection of six hundred samples of crude drugs.

The Bacteriological Laboratory

The Bacteriological Laboratory is situated on the fourth floor of the College Building and has accommodations for thirty-eight students. The equipment includes microscopes with immersion objectives and Abbe condensers. Sterilizers, incubators, and the usual bacteriological equipment are provided.

The Qualitative Laboratory

The Qualitative Laboratory is situated on the third floor of the Laboratory Building, is forty-four by thirty-three feet in size, has light from three sides, is provided with work-stands for sixty-four students, and has twice this number of lock-drawers and lock-cupboards. Each work-stand is supplied with gas, water, acid-proof sink, and retort stand. Aside from the individual kit furnished to each student, the laboratory is provided with other apparatus for use by the students in common. Fume hoods, into which gas, compressed air and hydrogen sulphide are piped, are provided.

The Quantitative Laboratory

The Quantitative Laboratory is situated on the second floor of the Laboratory Building, is thirty-three by forty-four feet in size, and has light from three sides. It is supplied with work-stands for classes of seventy-four students, each stand having a complete equipment. Connected with this laboratory is a smaller room provided with two electric ovens, a centrifuge, a Kjeldahl apparatus, and several drying ovens. Also a balance room equipped with twenty analytical balances for class use.

The Library

The Library adjoins the office on the first floor of the College Building. It contains about four thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

The Museum

The Museum occupies two large rooms on the third floor of the College Building. It is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

The Students' Room

A locker room for students is provided with 300 steel lockers for coats, hats, and books. A lounging room for the men and a rest room for women students are also provided.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. Age

The applicant must be at least seventeen years of age.

2. Non-Illinois Students

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten per cent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.*, in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. High-School Graduation

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are mean the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. Prescribed Subjects

The fifteen units required must include the following subjects, which are *perscribed* for admission to all departments of the University of Illinois:

List A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

5. ELECTIVES

The remaining ten units must be selected from List B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B

	Units
Latin	1-4
Greek	1-4
French	1-4
German	1-4
Spanish	1-4
Italian	1-3
English (4th unit)	1
Advanced algebra	½-1
Solid geometry	½
Trigonometry	½
History[1]	1-4
Civics	½-1
Economics and economic history	½-1
Commercial geography	½-1
Physiography	½-1
Physiology	½-1
Zoology	½-1
Botany	½-1
Physics	1-2
Chemistry	1-2

6. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]

Astronomy	½
Geology	½-1
Agriculture	1-3
Bookkeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics)	½
Domestic science	1-3
Drawing, art and design	½-1
Drawing, mechanical	½-1
Manual training[3]	1-2

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

LIST C (Concluded)

General science	½-1
Foreign language (other than those of List B)	1-2
Music	1-2
Shorthand and typewriting (when offered together)	1-2
Typewriting (when offered alone in double periods)	1

How the Entrance Requirement May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.
2. From schools accredited by the North Central Association of Colleges and Secondary Schools.
3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From schools approved by the New England College Entrance Certificate Board.
6. From schools accredited by the Southern Association of Colleges and Secondary Schools.
7. From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

High-School Credits by Examination

High-school credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.
2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.
3. In the examinations conducted in June of each year by the College Entrance Examination Board.
4. In the examinations conducted by the Regents of the University of the State of New York.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The Degree of Graduate in Pharmacy

The candidate for the degree of Graduate in Pharmacy must be twenty-one years of age, and must have attended two annual courses of instruction, the first of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age will receive a certificate and will be awarded the diploma when this requirement is satisfied.

(The degree of Graduate in Pharmacy will be discontinued after the school year 1925-1926.)

The Degree of Pharmaceutical Chemist

The candidate for the degree of Pharmaceutical Chemist must have attended three annual courses of instruction, the first and second of which may have been in some other recognized school of pharmacy. He must have successfully completed the prescribed curriculum.

COURSES OF INSTRUCTION

THE TWO-YEAR COURSE

The course leading to the degree of Graduate in Pharmacy comprises two years of thirty-two weeks each. Only the second year of this course will be offered during the session of 1925-26 and after this school-year only the three-year course leading to the degree of Pharmaceutical Chemist will be offered.

Materia Medica and Botany

Professor Day, Professor Gathercoal, Mr. Wirth, Dr. Groot,
Mr. Dorjahn, Mr. Hill, Miss Meyer

First Year

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Two lectures, one recitation and one laboratory period of one hour each week. First semester. Professor Day, Mr. Wirth, Mr. Dorjahn, Mr. Hill.

2. *Plant Histology.*—The microscopic structure of plants; the technic of the microscope; the operations of lighting, focusing, drawing, measuring, cutting, mounting objects; the application of micro-chemical tests, staining, etc. One laboratory period of two hours each week. First semester.
Professor Gathercoal, Mr. Wirth, Mr. Dorjahn, Mr. Hill.

3. *Plant Histology.*—A continuation of Botany 2. One laboratory period of two hours each week. Second semester. Professor Gathercoal, Mr. Wirth, Mr. Dorjahn.

4. *Physiology and Hygiene.*—A general course with instruction in caring for emergency cases. Two lectures and one recitation each week. First semester.
Dr. Groot.

5. *Materia Medica.*—General principles of materia medica; classification of medicines based on therapeutic action; incompatible drugs, posology and toxicology. Two lectures, and one recitation, each week. Second semester. Professor Day, Mr. Dorjahn.

6. *Pharmacognosy.*—A laboratory study of crude drugs including their recognition, description and characteristic features. The drugs derived from the cryptogams, the gymnosperms and the monocotyledons. One hour recitation and one hour laboratory each week. Second semester.
Professor Gathercoal, Mr. Wirth, Mr. Dorjahn, Mr. Hill.

Second Year

7. *Materia Medica.*—Plant drugs in botanic sequence; animal drugs; titles, synonyms, collection, preservation, standardization, therapeutic use, dose, and preparations. Two lectures and one recitation each week. Both semesters.
Professor Day, Mr. Dorjahn.

8. *Pharmacognosy.*—A laboratory study, a continuation of Pharmacognosy 6. Drugs derived from the dicotyledons, and including, in addition thereto, methods employed for detection of adulteration in powdered drugs. Two laboratory periods of two hours each and one recitation each week. One and one-third semesters.
Mr. Wirth, Mr. Dorjahn, Mr. Hill.

9. *Bacteriology.*—Characteristics of bacteria; morphology, structure, and classification; chemical composition, vital phenomena, and chemical effects. Relation of bacteria to disease; theories of infection and immunity; ferments, ptomaines, toxins, and antitoxins. Action of antiseptics, disinfectants, and bactericidal substances. Preparation of culture media and staining solutions; methods of cleaning and sterilizing glassware; methods of making plate cultures and colonies; technic of clover-glass slips. One lecture or recitation and three laboratory periods of three hours each week. Two-thirds semester. Professor GATHERCOAL, Miss MEYER.

PHARMACY

Professor SNOW, Mr. MARTIN, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal relations; metrology, and specific gravity; pharmaceutical arithmetic; conversion of avoirdupois and apothecaries' weights into metric equivalents and *vice versa;* drills in percentage and alligation as applied to pharmaceutical preparations, processes of operative pharmacy; use of apparatus, utensils, and devices employed in pharmaceutical practice; heat, its source and uses; solution, its phenomena, effects and causes; filtration, extraction and their modifications. Three lectures and recitations each week. First semester. Professor SNOW, Mr. MARTIN, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

2. *Galenical Pharmacy.*—Solutions and mixtures official in the United States Pharmacopoeia and National Formulary; methods of preparation and strength; synonyms, common uses, and doses. Three lectures and recitations each week. First half, second semester. Professor SNOW, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

3. *Pharmacy of the Inorganic Substances.*—The elements, inorganic compounds and preparations; pharmaceutical and technical uses; posology and therapeutic applications. Three lectures and recitations each week. Second half, second semester. Professor SNOW, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

4. *Pharmaceutical Laboratory.*—Preparations illustrative of the various processes and operations outlined in Pharmacy 1. One laboratory period of three hours each week. First semester. Professor SNOW, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

5. *Pharmaceutical Laboratory.*—Manufacture of the simpler preparations of the United States Pharmacopoeia and National Formulary. One laboratory period of three hours each week. Second semester. Professor SNOW, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

6. *Dispensing.*—Preparation of the most important solutions and mixtures of the United States Pharmacopoeia and the National Formulary, intended for extemporaneous compounding in prescription form. One laboratory period of one hour each week. Second semester. Professor SNOW, Mr. SEIFERT, Mr. MCDERMOTT, Mr. OCENASEK.

SECOND YEAR

7. *Galenical Pharmacy.*—A continuation of Pharmacy 2. Infusions, decoctions, tinctures, fluid extracts and resins. Preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets and tablets. Preparations for external use: ointments, cerates, suppositories, and plasters. Three lectures and recitations each week. First semester. Professor SNOW, Mr. MARTIN.

8. *Organic Substances.*—Preparation, purification, identity, purity, and strength, pharmaceutical preparations, medicinal uses, and doses. Three lectures and recitations each week. Second semester. Professor SNOW, Mr. MARTIN.

9. *Pharmaceutical Laboratory.*—Preparation of such mixtures of solids for internal and external use as are adapted to manufacture on a small scale and to be kept on hand in the pharmacy. One laboratory period of three hours each week. Both semesters. Professor SNOW, Mr. MARTIN, Mr. SEIFERT, Mr. OCENASEK.

10. *Dispensing.*—Preparation of mixtures adapted to extemporaneous compounding. Typical prescriptions, methods for the prevention or modification of incompatibilities. Drills in prescription reading, Latinity and abbreviations, foreign synonyms, directions, and posology. One lecture or recitation and one laboratory period of two hours each week. Both semesters. Professor SNOW, Mr. MARTIN, Mr. SEIFERT, Mr. OCENASEK.

CHEMISTRY

Professor CLARK, Assistant Professor WEAVER, Mr. WEBSTER,
Mrs. STOGIS, Miss WALBORN

FIRST YEAR

1. *Theoretical Chemistry.*—General principles of chemistry in connection with the non-metallic elements; nature of acids, bases, and salts from the standpoint of the modern theories of ionization and dissociation. Two lectures, one recitation each week. First semester. Professor CLARK, Assistant Professor WEAVER.

2. *General Chemistry.*—A study of the metals, in which the theories and principles of chemistry learned in course one are applied. Two lectures, one recitation each week. Second semester. Professor CLARK, Assistant Professor WEAVER.

3. *Qualitative Analysis.*—Identification of the various inorganic acid radicals and the more common metals; the examination of about thirty unknown mixtures; the special qualitative tests of the United States Pharmacopoeia; examination of medicinal chemicals for identity and purity. One lecture and one laboratory period of two hours each week. First semester. Assistant Professor WEAVER, Mr. WEBSTER, Miss WALBORN.

4. *Qualitative Analysis.*—A continuation of Chemistry 3. One lecture and one laboratory period of three hours each week. Second semester.
Assistant Professor WEAVER, Mr. WEBSTER, Miss WALBORN.

SECOND YEAR

5. *Organic Chemistry.*—A systematic course in the study of the carbon compounds. Simple hydrocarbons and their derivatives; alcohols, ethers, aldehydes, acids, esters, and carbohydrates. Two lectures and one recitation each week. First semester.
Professor CLARK, Assistant Professor WEAVER.

6. *Organic Chemistry.*—Aromatic hydrocarbons and their derivatives; synthetic remedies and alkaloids. Two lectures, one recitation each week. Second semester.
Professor CLARK, Mr. WEBSTER.

7. *Elementary Quantitative Analysis.*—Typical examples of gravimetric analysis as applied to the determination of the purity and strength of medicinal substances. Two lectures or recitations and two laboratory periods of three hours each week. First semester. Professor CLARK, Mr. WEBSTER, Mrs. STOGIS.

8. *Quantitative Analysis.*—Volumetric processes of the United States Pharmacopoeia. Analysis of organic substances and alkaloids. Two lectures or recitations and two laboratory periods of three hours each week. Second semester.

Professor Clark, Mr. Webster, Mrs. Stogis.

THE THREE-YEAR COURSE

Upon the recommendation of the faculty of the School of Pharmacy approved by the University Senate and authorized by the Trustees of the University the course in the School of Pharmacy will be expanded to three years beginning with the session of 1925-26. The new course will lead to the degree of Pharmaceutical Chemist. The program follows. During the school year 1925-26 only the first year of this three-year course will be offered.

Materia Medica and Botany

First Year

First Semester

1. *General Botany.*—2 lectures, 1 recitation and 1 laboratory period of 1 hour each week. (3 semester hours, 4 clock hours.)

2. *Plant Histology.*—1 laboratory period of 3 hours each week. (1 semester hour, 3 clock hours.)

3. *Physiology and Hygiene.*—2 lectures, 1 recitation each week. (3 semester hours, 3 clock hours.)

Second Semester

4. *Materia Medica.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

5. *Plant Histology.*—1 lecture or recitation and 1 laboratory period of 3 hours each week. (4 clock hours, 2 semester hours.)

Second Year

First Semester

6. *Materia Medica.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

7. *Pharmacognosy.*—1 recitation and 2 laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.)

Second Semester

8. *Materia Medica.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

9. *Pharmacognosy.*—1 recitation and 2 laboratory periods of 3 hours each week (3 semester hours, 7 clock hours.)

Third Year

First Semester

10. *Bacteriology.*—2 lectures and 1 recitation, and 3 laboratory periods of 3 hours each week. (7 semester hours, 12 clock hours.)

Second Semester

11. *Bio-Assay.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

CHEMISTRY

FIRST YEAR

First Semester

1. *General Chemistry.*—3 lectures and recitations each week. (3 semester hours, 3 clock hours.)

2. *General Chemistry.*—1 lecture or recitation, 1 laboratory period of 3 hours each week. (4 clock hours, 2 semester hours.)

Second Semester

3. *General Chemistry.*—3 lectures and recitations each week. (3 semester hours, 3 clock hours.)

4. *Qualitative Analysis.*—1 lecture, 1 laboratory period of 4 hours each week. (2 semester hours, 5 clock hours.)

SECOND YEAR

First Semester

5. *Quantitative Analysis.*—2 lectures, 2 laboratory periods; 1 of 3 hours, 1 of 4 hours each week. (4 semester hours, 9 clock hours.)

Second Semester

6. *General Organic Chemistry.*—4 lectures and recitations each week. (4 semester hours, 4 clock hours.)

7. *Organic Preparations.*—1 lecture, 2 laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.)

THIRD YEAR

First Semester

8. *General Organic Chemistry.*—4 lectures and recitations each week. (4 semester hours, 4 clock hours.)

Second Semester

9. *Advanced Quantitative Analysis.*—2 lectures, and 2 laboratory periods of 4 hours each week. (4 semester hours, 10 clock hours.)

10. *United States Pharmacopoeia.*—3 lectures or recitations each week. (3 semester hours, 3 clock hours.)

PHARMACY

FIRST YEAR

First Semester

1. *Theoretical Pharmacy.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

2. *Pharmaceutical Physics.*—1 laboratory period of 3 hours each week. (1 semester hour, 3 clock hours.)

3. *Arithmetic of Pharmacy.*—1 lecture or recitation each week. (1 semester hour, 1 clock hour.)

Second Semester

4. *Galenical Pharmacy.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

5. *Pharmaceutical Preparations.*—2 lectures or recitations, 1 laboratory period of 3 hours each week. (3 semester hours, 5 clock hours.)

SECOND YEAR

First Semester

6. *Galenical Pharmacy.*—2 lectures and 1 recitation each week. (3 semester hours, 3 clock hours.)

7. *Pharmaceutical Preparations.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

8. *Dispensing.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

Second Semester

9. *Organic Pharmacy.*—3 lectures and recitations each week. (3 semester hours, 3 clock hours.)

10. *Organic Pharmaceutical Preparations.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

11. *Dispensing.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

THIRD YEAR

First Semester

12. *Operative Pharmacy.*—1 lecture and 3 laboratory periods of 2 hours each week. (4 semester hours, 7 clock hours.)

13. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.)

14. *Advanced Prescription Compounding.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

Second Semester

15. *Manufacturing Pharmacy.*—1 lecture or recitation, 1 laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.)

16. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.)

17. *Advanced Dispensing.*—1 lecture or recitation, 1 laboratory period of 2 hours each week. (2 semester hours, 3 clock hours.)

SUMMARY OF THREE-YEAR CURRICULUM

FIRST YEAR

First Semester

	Clock hours Lec. & Rec.	Clock hours laboratory	Total clock hours	Total Semester hours
Pharmacy 1, 2 & 3	4	3	7	5
Chemistry 1 & 2	4	3	7	5
Materia Medica and Botany 1, 2 & 3	6	3	9	7
Totals for the Semester	14	9	23	17

Second Semester

Pharmacy 4 & 5	5	3	8	6
Chemistry 3 & 4	4	4	8	5
Materia Medica and Botany 4 & 5	4	3	7	5
Totals for the Semester	13	10	23	16

SECOND YEAR

First Semester

Pharmacy 6, 7 & 8	5	4	9	7
Chemistry 5	2	7	9	4
Materia Medica and Botany 6 & 7	4	6	10	6
Totals for the Semester	11	17	28	17

Second Semester

Pharmacy 9, 10 & 11	5	4	9	7
Chemistry 6 & 7	5	7	12	7
Materia Medica and Botany 8 & 9	4	6	10	6
Totals for the Semester	14	17	31	20

THIRD YEAR

First Semester

Pharmacy 12, 13 & 14	3	8	11	7
Chemistry 8	4	..	4	4
Materia Medica and Botany 10	3	9	12	6
Totals for the Semester	10	17	27	17

Second Semester

Pharmacy 15, 16 & 17	3	5	8	5
Chemistry 9 & 10	5	8	13	7
Materia Medica & Botany 11	3	..	3	3
Totals for the Semester	11	13	24	15

Total Semester hours in 3 years..................................102

Average number of clock hours per week per semester................ 26

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships, apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Conference of Pharmaceutical Faculties. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

WOMAN'S LOAN FUND

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115.00, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116.00 and in 1923, $360.00, to this fund. With accumulated interest the total amount in the fund is $605.34. This fund is to be lent to one or two deserving students, men or women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within three years for a junior student and within two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

GENERAL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

MATERIA MEDICA PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who, in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIPS.—Three such memberships are offered as prizes by members of the faculty: One is awarded for excellence in practical pharmacy, the second for excellence in chemistry, the third for excellence in pharmacognosy.

Mr. William Gray offers a membership in the American Pharmaceutical Association as a prize for excellence in dispensing.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	....	....	....	....	....
Tuition	47.50	$47.50	$47.50	$47.50	$47.50	$47.50
Laboratory fee[2]	15.00	15.00	15.00	15.00	15.00	15.00
Laboratory deposit[2]	15.00	....	15.00	....	15.00	....
Diploma	....	....	....	10.00	....	10.00
	$87.50	$62.50	$77.50	$72.50	$77.50	$72.50

NON-ILLINOIS STUDENTS

Non-Illinois students pay fees as indicated above except that the tuition fee is $60.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10.00. Original transcript of record, $1.00;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of one dollar will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals and other material consumed by the student in the laboratories. The laboratory deposit covers breakage or damage to apparatus furnished by the School. From this deposit will be deducted the charges for apparatus broken, missing or not returnable, also a locker fee of $1 if the student uses a locker in the coatroom.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

Payment of Fees.—All fees are payable in advance during the registration days of each semester. Exceptions to this rule will be made only with the approval of the proper administrative officer. Special students pay no matriculation nor diploma fees.

Rebates of Fees.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees except the matriculation fee will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees paid will be refunded.

Board and Lodging.—The expense of board and room together is from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary. Students are advised to defer engaging board and room until they arrive in the city, when arrangements can be made readily and quickly.

Books.—The expense of books is moderate. About forty-five dollars will purchase all the books required for the Ph.G. course. For the Ph.C. course the expenditure for books will be somewhat more.

Chicago Branch of the A. Ph. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has it headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

For further information or for a matriculation blank, address

W. B. Day, *Dean*
701 South Wood St., Chicago, Ill.

PROVISIONAL SCHEDULE—FIRST YEAR, Ph.C. COURSE

FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9 to 10 a. m. Chemistry Lecture Section A Pharmacy Recitation Section 3	9 a. m. to 12 m. Histology Laboratory Extra Sections 3 and 4	9 to 10 a. m. Chemistry Lecture Section B Pharmacy Recitation Section 1	9 a. m. to 12 m. Histology Laboratory Extra Sections 1 and 2	9 to 10 a. m. Botany Lecture
10 to 11 a. m. Pharmacy Lecture		10 to 11 a. m. Botany Lecture		10 to 11 a. m. Chemistry Recitation Section 3 Chemistry Recitation Section 1
11 a. m. to 12 m. Chemistry Lecture Section B Botany Recitation Section 1	11 a. m. to 12 m. Pharmacy Recitation Section 2	11 a. m. to 12 m. Chemistry Lecture Section A Botany Recitation Section 3	11 a. m. to 12 m. Chemistry Recitation Section 2	11 a. m. to 12 m. Pharmacy Lecture
1 to 2 p. m. Physiology Lecture	1 to 2 p. m. Physiology Recitation Section 3	1 to 2 p. m. Physiology Lecture	1 to 2 p. m. Physiology Recitation Section 2	1 to 2 p. m. Physiology Recitation Section 1 Botany Recitation Section 2
2 to 5 p. m. Chemistry Laboratory Section 1 Pharmacy Laboratory Section 4 Histology Laboratory Section 3	2 to 5 p. m. Chemistry Laboratory Section 2 Pharmacy Laboratory Section 3 Histology Laboratory Section 4	2 to 5 p. m. Chemistry Laboratory Section 4 Pharmacy Laboratory Section 2 Histology Laboratory Section 1	2 to 5 p. m. Chemistry Laboratory Section 3 Pharmacy Laboratory Section 1 Histology Laboratory Section 2	2 to 3 p. m. Chemistry Lecture 3 to 4 p. m. Pharmaceutical Arithmetic Recitation By sections

PROVISIONAL SCHEDULE—SECOND YEAR, Ph.G. COURSE

FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8 a. m. to 12 m. Pharmacognosy Laboratory and Bacteriology Laboratory and Recitation By Sections	9 to 10 a. m. Chemistry Recitation 10 to 11 a. m. Pharmacy Lecture 11 a. m. to 12 m. Materia Medica Lecture	9 a. m. to 12 m. Pharmacognosy Laboratory and Recitation and Bacteriology Laboratory By Sections Pharmacy Laboratory Section C	9 to 10 a. m. Pharmacy Recitation 10 to 11 a. m. Chemistry Lecture 11 a. m. to 12 m. Materia Medica Lecture	9 a. m. to 12 m. Bacteriology Laboratory and Pharmacognosy Laboratory and Recitation By Sections Chemistry Laboratory Section B
1 to 2 p. m. Chemistry Lecture	1 to 2 p. m. Materia Medica Recitation	1 to 2 p. m. Chemistry Lecture	1 to 2 p. m. Pharmacy Lecture	1 to 2 p. m. Chemistry Lecture
2 to 5 p. m. Chemistry Laboratory Section B Pharmacy Laboratory Section C	2 to 5 p. m. Chemistry Laboratory Section A and Pharmacy Laboratory Section B	2 to 5 p. m. Chemistry Laboratory Section A Pharmacy Laboratory Section B	2 to 5 p. m. Chemistry Laboratory Section C Pharmacy Laboratory Section A	2 to 5 p. m. Chemistry Laboratory Section C Pharmacy Laboratory Section A

DEGREES, 1925

Degree of Graduate in Pharmacy

Albert N. Almond
Vernon Orville Anderson
Kenneth Harold Applegate
Charles Berman
Frederick Raphield Burger
Emmett Robert Byrne
Eldred Joseph Caron
Paul David Carpenter
Michael Castellano
Clarence Joseph Cizek
Maurice Miller Chez
Daniel Grant Clemmons
Henry Alvin Cole
Anthony DePrima
Samuel Morris Dintzis
Samuel Edelman
David Epstein
Irving Feldman
Jacob Fine
Isadore Finkel
Jack L. Finkelstein
William Donald Flaningam
Jerome Freud
Oliver Joseph Glenn
Isadore Goldberg
Harold Milton Goldenson
Leslie Harry Goslin
Casimir B. Gwizdalski
Roy Wesley Halford
Robert John Hathaway
Irving Heiman
Joseph Lloyd Hiller
David Hillman
Cecil Herbert Hook
Louis Irving Hodosh
Harry Hyman Hymovitch
Barbara Ellen Hynes
George William Hypes
Robert Lytle Jacks
Julius Louis Jacobs
James Hobart Jenkins
Leonard Riley Jewell
Stanley Arnold Josephson
Sam Kastel
Fred Kaufman
Wilkin Coulter Kessler
David Kharasch
Abe Mandel Kulwinsky
Brace Fenimore Lambert
Angelo Lavieri
Cecil Lee
Carleton Walter Leverenz
Ralph Raymond Levy
Harry Benjamin Lieberman
Joseph Serene McDonnell, Jr.
Melvin Trout McIntyre
Oscar Jason McNabb
John Bernard Martoccio
Henry August Matthes
Alex Samuel Nachenberg
Walter Herman Naumann
Maurice Norman
Anthony Marino Onesto
Othello Joseph Palumbo
Samuel Perlman
Gilbert O. Peterson
Maurice Pomerantz
Julius Peter Rakstis
Raymond John Rickelman
Robert Matthew Riley
Julius Ringhofer
Jules Xavier Rivard
Samuel Rosenberg
Harold F. Rosenblum
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Alexander Herman Rubin
Willard Clark Sanford
Michael Schneider
George Amandus Seyfarth
Jacob Shapiro
Samuel Shkolnik
Alva Milton Shuler
Richard Heckman Siebens
Francis Lowell Simons
Samuel Singer
Morris Skor
Virgil Edward Weber Smith
Joseph Tours Sperl, M.D.
Jaroslav Anton Srp
Anton Stach
William Stach
Edward Lee Stamberg
Edwin Herbert Sternberg
Bertrand Subin
Richard Thomas Szymanski
Charles John Thiel

Isadore Titafsky
Albert Oscar Tollar
Isador Edward Turek
Forrest Joseph Tweedie
Lloyd Henry VanWinkle
Bohumil John Vencovsky
Arthur Henry Verrier
Henry Alvin Visotzky
Thomas John Vratny
Samuel Wallman
Estelle E. Warczak
Maurice Weiner
John Wolf
Fred George Westenberger
Carl Bertal Anderson (Class of 1924)
Josephine Lorraine Bauml (Class of 1924)
Harry Berman (Class of 1924)
Harry Cooperman (Class of 1924)
Maurice Engerman (Class of 1924)
Garford Richard Harris (Class of 1924)
Ruben Horwitz (Class of 1924)
Morris Bud Kallison (Class of 1924)
Isadore Kirschenbaum (Class of 1924)
Leslie J. Kocour (Class of 1924)
Edward Kravetz (Class of 1924)
Morris Lieberman (Class of 1924)
Henry E. Painter (Class of 1924)
Walter August Piepho (Class of 1924)
Raymond Rush (Class of 1924)
Isadore A. Rosenblatt (Class of 1924)
Louis Roth (Class of 1924)
Harold Jay Shames (Class of 1924)
Louis Shapero (Class of 1924)
Samuel S. Shapiro (Class of 1924)
Samuel Sidney Tunick (Class of 1924)
George Yellen (Class of 1924)
Edward H. Zeiler (Class of 1924)
Ralph Zeitlin (Class of 1924)
James Victor Jindra (Class of 1923)
Edith Read Wilson (Class of 1923)
Louis Frank Plzak (Class of 1921)
Edward Sykora (Class of 1921)

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William Bannister Barryte
Paul Brian Bass
William Randolph Benson
Evelyn Mazie Caron
Louis Amanda Eckart
Willis Burton Fiddelke
Bernard Charles Fogelson
Armond Thomas Foster
Barney Galatzer
Arthur A. Goldstein
Anton Joseph Jakubowski
Chester Anton Jarecki
Meyer Arnold Katz
Harry Arthur Klein
Joseph Masal Krinsky
Harry George Landsman
Melvin Frank Lossman
Morris Lukinsky
Samuel Henry Mitlin
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Isadore Pitchman
George Jerry Pudil
Emilio Carl Romano
John Beck Seyler
Julius Silberman
Leroy Smith
Feliks Leo Wojtalewicz
William Jerome Zimmerman

HONORS—SENIOR CLASS

The Leo L. Mrazek Prize—James Hobart Jenkins
The Andrew Scherer Prize—Samuel Shkolnik
Hodel Brothers and Saltiel Prize—Kenneth Harold Applegate
A.Ph.A. Membership in Pharmacy—Robert Matthew Riley
A.Ph.A. Membership in Materia Medica—Vernon Orville Anderson
A.Ph.A. Membership in Chemistry—Albert N. Almond
The William Gray Membership A.PhA.—Jules Xavier Rivard

LIST OF STUDENTS 1924-1925

COURSE FOR GRADUATE IN PHARMACY

SENIORS

Almond, Albert N.	*Aurora*
Anderson, Vernon Orville	*Geneva*
Applegate, Kenneth Harold	*Macomb*
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Gerdung, George Fred	*Chicago*
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Koci, Ervin William	*Chicago*
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Kozlov, Solomon	*Chicago*
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McKinley, Wilbur M.	*Mason City*
Madura, John Joe	*Chicago*
Makoul, Hatchik	*Chicago*
Maram, Sam	*Chicago*
Maram, William	*Chicago*
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Meara, John Walter	*Decatur*
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Milano, George	*Chicago*
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Moore, Charles Raymond	*Harrisburg*
Morse, Orville Dale	*Elgin*

Mueller, Theodor	*Chicago*
Murphy, Joseph Patrick	*Chicago*
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Newman, Barney	*Chicago*
Niespodziany, Chester Edward	*Chicago*
Nowak, Edward Steven	*Chicago*
Oakdale, Urban Oscar	*Chicago*
Oberman, Herman Imy	*Chicago*
O'Connor, Joseph Edwin	*Chicago*
Olivo, Herman Louis	*Joliet*
Otto, Carl Albert	*Springfield*
Pales, Harold	*Chicago*
Patt, Bernard Stuart	*Chicago*
Peters, Chester Louis	*Chicago*
Picker, Lillian Elizabeth	*Chicago*
Plhak, Charles Frank	*Berwyn*
Podolsky, Emanuel Merrill	*Chicago*
Poole, Raymond Tilden	*Chicago*
Potkin, Maurice	*Chicago*
Price, Harold	*Chicago*
Prouza, Adolph Edward	*Chicago*
Radner, David	*Chicago*
Raff, Isadore Howard	*Chicago*
Rand, Harry Irwin	*Chicago*
Raphael, Harry Barney	*Chicago*
Ratajik, Emil Joseph	*Chicago*
Reifler, Reuben Max	*Chicago*
Renfroe, James Anderson	*Chicago*
Reusch, William Stanley	*Chicago*
Reynolds, John Edwin	*Chicago*
Riback, David Jerome	*Chicago*
Rice, David	*Chicago*
Rice, Morris	*Chicago*
Rifas, Leo	*Chicago*
Roberts, Roscoe Lawrence	*Chicago*
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Romano, Theresa Mildred	*Chicago*
Rosen, Irwin	*Chicago*
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Rothberg, David	*Chicago*
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Sherrick, Otho Carl	*Carthage*
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Shulman, Benjamin	*Chicago*
Shulman, Joseph	*Chicago*
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Timm, Stuart Hepner	*Chicago*
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English	6 semester hours
Chemistry	6 semester hours
Biology or physics (physics must be presented if it has not been taken in the high school)	6 semester hours
Electives	12 semester hours

For further information address

The Dean, College of Dentistry, University of Illinois
1838 W. Harrison St., Chicago, Illinois

UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

College term begins October 5, 1925. Entrance repuirements: fifteen units of work from an accredited high school and two years' work in a recognized college or university, comprising not less than sixty semester hours, including prescribed subjects.

Five-year curriculum (including one year of interne service in an approved hospital) leading up to the degree of Doctor of Medicine. Degree of Bachelor of Science conferred at the end of the second year in medicine in accordance with conditions set forth in catalog. For full information, address Secretary, College of Medicine, University of Illinois, 508 South Honore Street, Chicago.

THE UNIVERSITY OF ILLINOIS

THE STATE UNIVERSITY

URBANA

DAVID KINLEY, PH.D., LL.D., *President*

The University Includes the Following Departments

THE GRADUATE SCHOOL

THE COLLEGE OF LIBERAL ARTS AND SCIENCES (Ancient and Modern Languages and Literatures; History, Economics, Political Science, Sociology, Philosophy, Psychology, Education; Mathematics; Astronomy; Geology; Physics; Chemistry; Botany, Bacteriology, Zoology, Entomology; Physiology; Art and Design; Home Economics)

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION (General Business, Banking, Insurance, Accountancy, Railway Administration, Railway Transportation, Industrial Administration, Foreign Commerce; Courses for Commercial Teachers and Commercial and Civic Secretaries; Commerce and Law)

THE COLLEGE OF ENGINEERING (Architecture; Architectural, Ceramic, Civil, Electrical, Gas, General, Mechanical, Mining, Municipal and Sanitary, Railway Engineering, and Engineering Physics)

THE COLLEGE OF AGRICULTURE (Agronomy; Animal Husbandry; Dairy Husbandry; Farm Mechanics, Farm Organization and Management; Horticulture, Landscape Gardening, and Floriculture; Agricultural Extension; Home Economics)

THE COLLEGE OF LAW (Three-year and four-year curriculums based on two years of college work)

THE COLLEGE OF EDUCATION (General Education; Bureau of Educational Research; Athletic Coaching; Agricultural Education; Home Economics Education; Industrial Education; Music Education; University High School)

THE CURRICULUM IN JOURNALISM

THE CURRICULUMS IN CHEMISTRY AND CHEMICAL ENGINEERING

THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

THE SCHOOL OF MUSIC (four-year curriculum)

THE LIBRARY SCHOOL (two-year curriculum for college graduates)

THE COLLEGE OF MEDICINE (in Chicago)

THE COLLEGE OF DENTISTRY (in Chicago)

THE SCHOOL OF PHARMACY (in Chicago; Ph.G. and Ph.C. curriculums)

THE SUMMER SESSION (eight weeks)

EXPERIMENT STATIONS AND SCIENTIFIC BUREAUS: U. S. Agricultural Experiment Station; Engineering Experiment Station; State Natural History Survey; Biological Experiment Station on Illinois River; State Water Survey; State Geological Survey; U. S. Bureau of Mines Experiment Station.

The library collections contain May 1, 1925, 650,672 volumes and 86,000 pamphlets. For catalogs and information address

THE REGISTRAR
Urbana, Illinois

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1926/27

VERSITY OF ILLINOIS CIRCULAR
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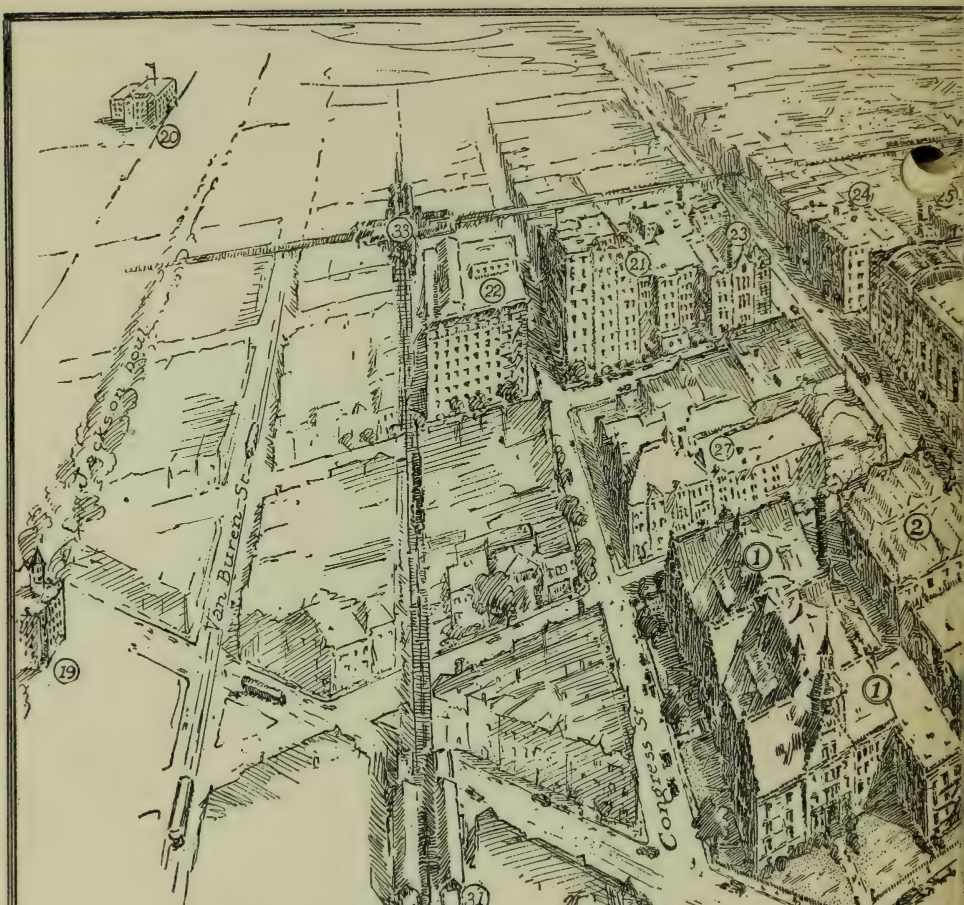
UNIVERSITY OF ILLINOIS

SCHOOL OF PHARMACY

1926-1927

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO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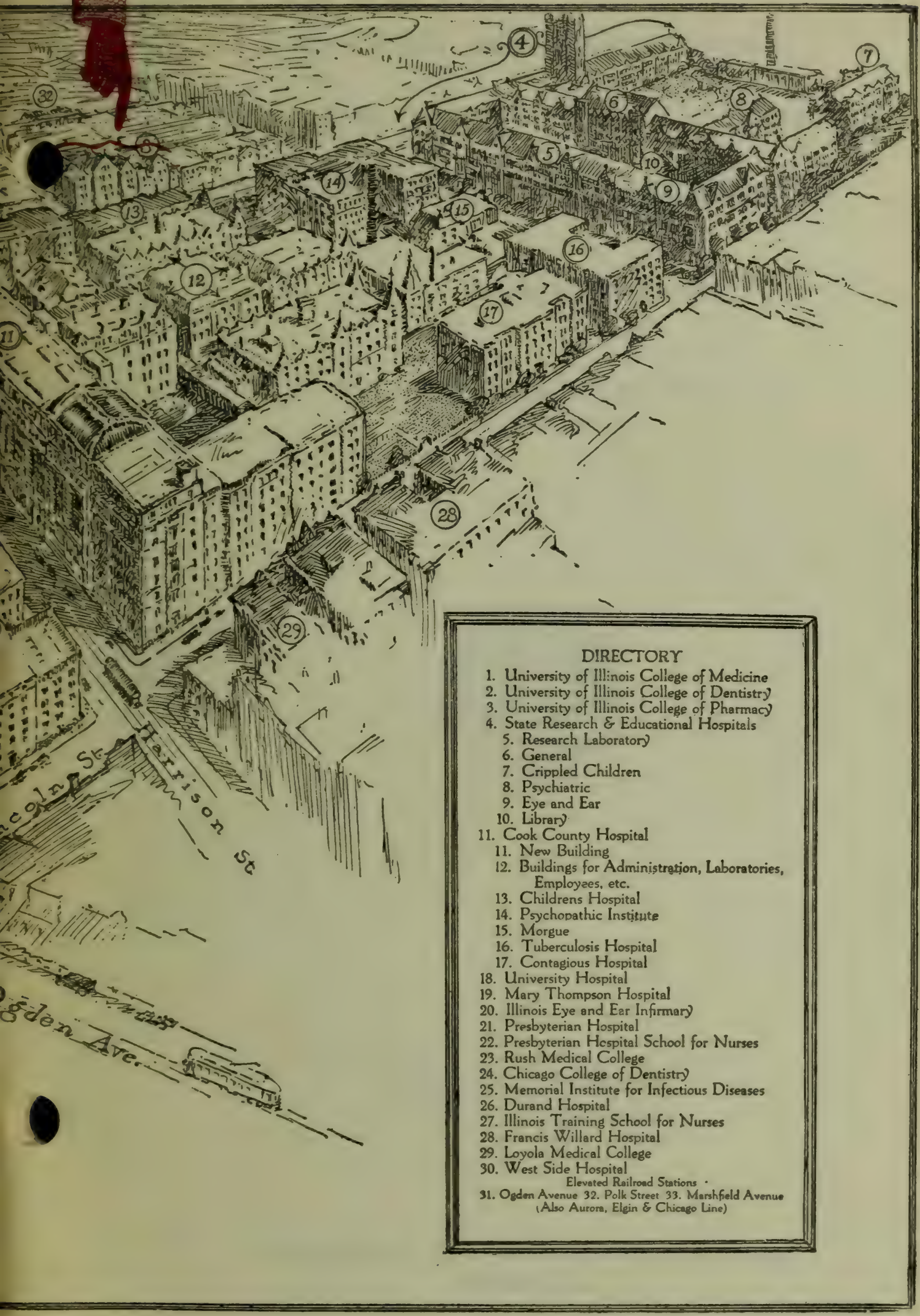
MEDICAL CENTER OF CHICAGO
Birds eye view
of principal
buildings



DIRECTORY

1. University of Illinois College of Medicine
2. University of Illinois College of Dentistry
3. University of Illinois College of Pharmacy
4. State Research & Educational Hospitals
    5. Research Laboratory
    6. General
    7. Crippled Children
    8. Psychiatric
    9. Eye and Ear
    10. Library
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    11. New Building
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    14. Psychopathic Institute
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    17. Contagious Hospital
18. University Hospital
19. Mary Thompson Hospital
20. Illinois Eye and Ear Infirmary
21. Presbyterian Hospital
22. Presbyterian Hospital School for Nurses
23. Rush Medical College
24. Chicago College of Dentistry
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(Also Aurora, Elgin & Chicago Line)

Sixty-seventh Annual Announcement

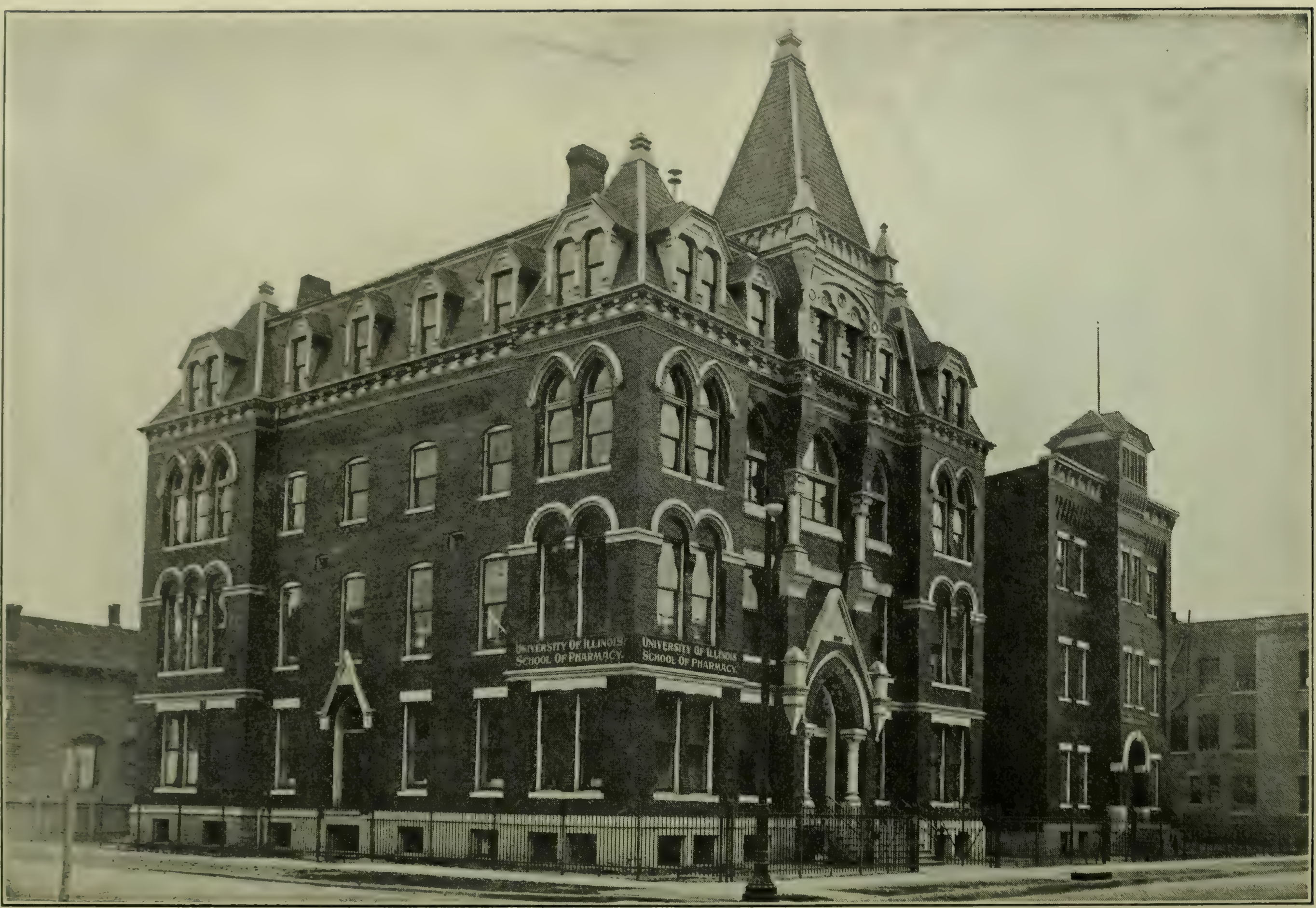
UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY

(Chicago College of Pharmacy)

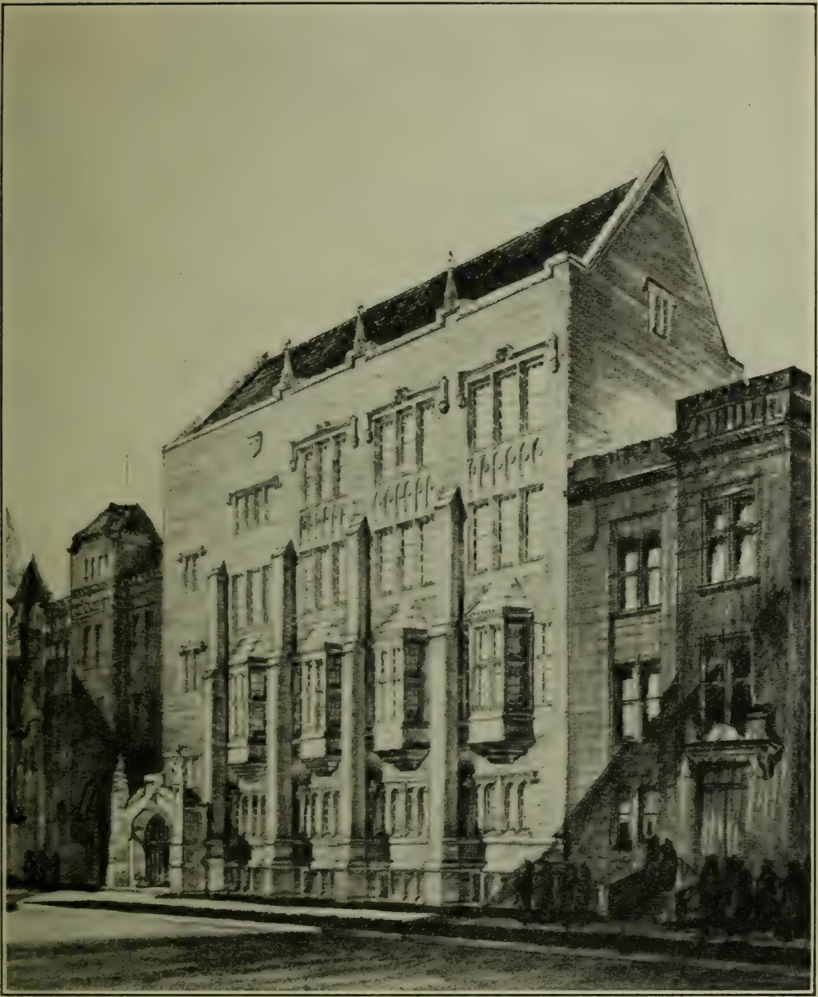
WOOD AND FLOURNOY STREETS
CHICAGO, ILLINOIS

REGISTER FOR 1925-1926
SESSION OF 1926-1927

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO


UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY
UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY

THE PHARMACY BUILDINGS
(North Group)



THE PHARMACY BUILDINGS
(New Building from the Architect's Drawing)

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1926/27

FACULTY—1925-1926

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Dean, Professor of Materia Medica and Botany
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Assistant in Bacteriology
REBECCA ROSENBLUM, Ph.G.
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JAROSLAV ANTON SRP, Ph.G.
Assistant in Chemistry
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Assistant in Pharmacy
GEORGE WILLIAM NOVOTNY, Ph.G.
Assistant in Pharmacy
PAUL DAVID CARPENTER, Ph.G.
Assistant in Pharmacognosy
MEYER BALIN, Ph.G.
Assistant in Pharmacy

This School holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

CALENDAR—1926-1927

FIRST SEMESTER

September 8-11—Wednesday-Saturday
Entrance Examinations.

October 4—Monday, 8 a. m.-5 p. m.
Registration and payment of fees.

October 5—Tuesday, 9 a. m.
Semester instruction begun.

November 24—Wednesday 12 m.
Thanksgiving recess begun.

November 29—Monday, 9 a. m.
Instruction resumed.

December 22—Wednesday, 5 p. m.
Holiday recess begun.

January 3, 1927—Monday, 9 a. m.
Instruction resumed.

January 31-February 4—Monday-Friday
Semester Examinations.

SECOND SEMESTER

February 7—Monday, 8 a. m.-5 p. m.
Registration and payment of fees.

February 8—Tuesday, 9 a. m.
Semester instruction begun.

February 22—Tuesday
Washington's Birthday.

April 14—Thursday, 5 p. m.
Easter recess begun.

April 18—Monday, 9 a. m.
Instruction resumed.

May 30—Monday
Memorial Day.

May 23-June 3—Monday-Friday
Final Examinations.

June 9—Thursday
Alumni meeting.

June 11—Saturday
Commencement Chicago Professional Schools of the University.

June 13—Monday
Fairchild scholarship examination.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists nominated by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the school on a site immediately adjoining the present buildings. Work on this building was begun early in 1926.

In February, 1926, the University turned over to the school the building at 721 South Wood Street formerly occupied by the Institute for Juvenile Research.

LOCATION

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four feet on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include three brick structures now occupied by the school. A fourth building is under construction. When this is completed the four buildings will be connected by stairways and corridors at each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam. The corner building at the north is 60 by 80 feet square and four stories in height. It contains offices, the library, the museum, the microscopical laboratory, the bacteriology laboratory, an auditorium seating 265 persons, and two smaller classrooms besides students' rooms and locker rooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains two pharmaceutical laboratories, two chemical laboratories, offices, and storerooms.

The third building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two smaller classrooms, offices, and students' rooms.

The new building now under construction will be a modern fireproof structure, four stories in height and having a frontage of 80 feet on Wood Street and extending back 124 feet. It will provide the general offices of the school, the new library, five large laboratories, and a large classroom.

The Lecture Rooms

There are three lecture rooms seating respectively 270, 260, and 150 persons and three smaller classrooms seating 90, 82, and 72 each. In addition to these will be another classroom seating 72 persons in the building now under construction.

The Laboratories

Six laboratories having a total capacity of 400 students working at one time are provided in the buildings now occupied by the school and in the new building there will be five more with the total capacity of 360. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

THE PHARMACEUTICAL LABORATORY

The Pharmaceutical Laboratory occupies a room thirty-two by fifty-one feet in size. Work-stands are provided for sixty-eight students, with lockers for four times that number. Each work-stand is four feet long and is equipped with water, sink, sand bath, gas, retort stand, and water bath. The individual kit furnished to each student includes percolators, graduates, precipitating jar, bunsen burner, florence flasks, worm condenser, mortars, metric weights, etc.

THE LABORATORY FOR COMMERCIAL MANUFACTURING

This laboratory is planned to afford practical experience to students in the handling and use of apparatus and machinery found in commercial work. Among the types are a porcelain-lined pebble mill, a pony mixer, an ointment mill, a drug mill, a pill coater, and a tablet machine. All are power driven. In addition there is a vacuum pan complete with condenser and electric pump, a rotary sifter and mixer, a large tincture press, five and ten gallon enameled iron percolators, a drying oven, sieves, and smaller pieces. Electricity, gas, hot and cold water, and compressed air are supplied. Work-stands are provided for seventy-two students.

THE LABORATORY FOR PHARMACOGNOSY

The Laboratory for Pharmacognosy is twenty-four by forty feet in size. Desks are provided for fifty-six students. Fifty-six compound microscopes, magnifying from seventy-five to five hundred diameters, form a part of the general equipment. Each student is provided with an individual outfit, consisting of reagents, mounting media, slides, covers, forceps, section cutter, magnifier, and other necessary apparatus. This room also contains the pharmacognosy collection of six hundred samples of crude drugs.

THE BACTERIOLOGICAL LABORATORY

The Bacteriological Laboratory is situated on the fourth floor and has accommodations for fifty-six students. The equipment includes microscopes with immersion objectives and Abbe condensers. Sterilizers, incubators, and the usual bacteriological equipment are provided.

THE QUALITATIVE LABORATORY

The Qualitative Laboratory is forty-four by thirty-three feet in size, is provided with work-stands for sixty-four students, and has twice this number of lock-drawers and lock-cupboards. Each work-stand is supplied with gas, water, acid-proof sink, and retort stand. Aside from the individual kit furnished to each student, the laboratory is provided with other apparatus for use by the students in common. Fume hoods are provided, into which gas, compressed air, and hydrogen sulphide are piped.

The Quantitative Laboratory is thirty-three by forty-four feet in size. It is supplied with work-stands for classes of seventy-four students, each stand having a complete equipment. Connected with this laboratory is a smaller room provided with two electric ovens, a centrifuge, a Kjeldahl apparatus, and several drying ovens. Also a balance room equipped with twenty-five analytical balances for class use.

The Library

The Library contains about five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

The Museum

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

The Students' Rooms

A locker room for students is provided with 300 steel lockers for coats, hats, and books. A rest room for women students is also provided.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. AGE

The applicant must be at least seventeen years of age.

2. NON-ILLINOIS STUDENTS

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten per cent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.*, in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. HIGH-SCHOOL GRADUATION

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. PRESCRIBED SUBJECTS

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

LIST A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

5. ELECTIVES

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B

	Units
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
English (4th unit)	1
Advanced algebra	½–1
Solid geometry	½
Trigonometry	½
History[1]	1–4
Civics	½–1
Economics and economic history	½–1
Commercial geography	½–1
Physiography	½–1
Physiology	½–1
Zoology	½–1
Botany	½–1
Physics	1–2
Chemistry	1–2

6. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]

Astronomy	½
Geology	½–1
Agriculture	1–3
Bookkeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics	½
Domestic science	1–3
Drawing, art and design	½–1
Drawing, mechanical	½–1
Manual training[3]	1–2

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

General science	½–1
Foreign language (other than those of List B)	1–2
Music	1–2
Shorthand and typewriting (when offered together)	1–2
Typewriting (when offered alone in double periods)	1

How the Entrance Requirements May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.
2. From schools accredited by the North Central Association of Colleges and Secondary Schools.
3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From schools approved by the New England College Entrance Certificate Board.
6. From schools accredited by the Southern Association of Colleges and Secondary Schools.
7. From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

High-School Credits by Examination

High-school credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.
2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.
3. In the examinations conducted in June of each year by the College Entrance Examination Board.
4. In the examinations conducted by the Regents of the University of the State of New York.

7. State Qualifying Certificate

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application. A fee of $1 must be paid to the State Department of Education and Registration for this certificate.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

THE DEGREE OF PHARMACEUTICAL CHEMIST

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

(The degree of Graduate in Pharmacy was discontinued with the school year 1925-1926.)

REQUIREMENT OF C IN THREE-FOURTHS OF WORK FOR THE DEGREE

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

The course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist. (Only the first and second years of this course will be offered during the session of 1926-27.)

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Mr. WIRTH, Dr. GROOT,
Mr. DORJAHN, Miss MEYER, Mr. CARPENTER

FIRST YEAR

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.
Professor DAY, Professor GATHERCOAL, Miss MEYER, Mr. CARPENTER.

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. GROOT.

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Professor GATHERCOAL, Miss MEYER, Mr. CARPENTER

SECOND YEAR

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Professor DAY, Mr. WIRTH, Mr. DORJAHN.

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Mr. WIRTH, Mr. DORJAHN.

6. *Materia Medica.*—A continuation of course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor DAY, Mr. WIRTH, Mr. DORJAHN.

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Mr. WIRTH, Mr. DORJAHN.

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First semester. (Not offered in 1926-27.)

9. *Materia Medica.*—Pharmacology, bio-assay, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester. (Not offered in 1926-27.)

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and micro-chemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester. (Not offered in 1926-27.)

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. WEBSTER,
Miss WALBORN, Miss ROSENBLUM.

FIRST YEAR

1. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.
Assistant Professor DAVIS, Miss WALBORN, Miss ROSENBLUM.

2. *General Chemistry.*—Laboratory work arranged to illustrate course 1. One lecture and one four-hour laboratory period each week. (2 semester hours, 5 clock hours.) First semester. Assistant Professor DAVIS, Miss WALBORN.

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in courses 1 and 2. The use of the metals and their compounds in pharmacy and the chemistry related thereto is emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester. Assistant Professor DAVIS, Miss WALBORN, Miss ROSENBLUM.

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester. Assistant Professor DAVIS, Miss WALBORN.

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U. S. P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.
Professor CLARK, Mr. WEBSTER, Miss ROSENBLUM.

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in

pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor Clark, Mr. Webster, Miss Walborn, Miss Rosenblum.

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Professor Clark, Mr. Webster, Miss Rosenblum.

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Clark, Mr. Webster, Miss Walborn, Miss Rosenblum.

Third Year

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester. (Not offered in 1926-27.)

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester. (Not offered in 1926-27.)

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. (Not offered in 1926-27.)

Pharmacy

Professor Snow, Mr. Martin, Mr. Morrison, Mr. Novotny,
Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik, Mr. Balin.

First Year

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor Snow, Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik.

2. *Pharmaceutical Physics.*—Practical applicaton in the laboratory of the various processes and operations presented in Pharmacy 1. One laboratory period of 3 hours each week. (1 semester hour, 3 clock hours.) First semester.

Professor Snow, Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik, Mr. Balin.

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity,

percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor Snow, Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik.

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Snow, Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik.

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. Two lectures or recitations and one laboratory period of three hours each week. (3 semester hours, 5 clock hours.) Second semester.

Professor Snow, Mr. Ocenasek, Mr. Jenison, Mr. Shkolnik, Mr. Balin.

Second Year

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester. Professor Snow, Mr. Martin, Mr. Morrison, Mr. Novotny.

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparaton. Two lectures or recitations and two laboratory periods of three hours each week. (4 semester hours, 8 clock hours.) First semester.

Professor Snow, Mr. Martin, Mr. Novotny, Mr. Balin.

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Snow, Mr. Martin, Mr. Morrison, Mr. Novotny.

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. Two lectures and recitations and two laboratory periods of 3 hours each week. (4 semester hours, 8 clock hours.) Second semester. Professor Snow, Mr. Martin, Mr. Novotny, Mr. Balin.

Third Year

10. *Operative Pharmacy.*—2 lectures and 2 laboratory periods of 3 hours each week. (4 semester hours, 8 clock hours.) First semester. (Not offered in 1926-27.)

11. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) First semester. (Not offered in 1926-27.)

12. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) Second semester. (Not offered in 1926-27.)

13. *Advanced Dispensing.*—2 lectures or recitations, 2 laboratory periods of 3 hours each week. (4 semester hours, 8 clock hours.) Second semester. (Not offered in 1926-27.)

SUMMARY OF THREE-YEAR CURRICULUM

FIRST YEAR

	Clock hours Lec. &Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
First Semester				
Pharmacy 1, 2 & 3	6	3	9	7
Chemistry 1 & 2	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Totals for the Semester	13	10	23	16
Second Semester				
Pharmacy 4 & 5	5	3	8	6
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Totals for the Semester	13	13	26	17
SECOND YEAR				
First Semester				
Pharmacy 6 & 7	5	6	11	7
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Totals for the Semester	14	19	33	20
Second Semester				
Pharmacy 8 & 9	5	6	11	7
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Totals for the Semester	14	19	33	20
THIRD YEAR				
First Semester				
Pharmacy 10 & 11	3	6	9	5
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Totals for the Semester	9	23	32	16
Second Semester				
Pharmacy 12 & 13	3	6	9	5
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Totals for the Semester	7	20	27	13

Total Semester hours in 3 years....................102

Average number of clock hours a week a semester.............. 29

GENERAL INFORMATION

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examinaton.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships, apply to the Registrar of the University, Urbana.)

The Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Associations of Colleges of Pharmacy. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

Woman's Loan Fund

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund. With accumulated interest the total amount in the fund is $605.34. Loans from this fund are to be made to deserving students, men or women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a freshman student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Graduation With Honors

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

MATERIA MEDICA PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who, in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIPS.—Three such memberships are offered as prizes by members of the faculty: One is awarded for excellence in practical pharmacy, the second for excellence in chemistry, the third for excellence in pharmacognosy.

Mr. William Gray offers a membership in the American Pharmaceutical Association as a prize for excellence in dispensing.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	....	....	....	....	....
Tuition	47.50	$47.50	$47.50	$47.50	$47.50	$47.50
Laboratory fee[2]	15.00	15.00	15.00	15.00	15.00	15.00
Laboratory deposit[2]	15.00	....	15.00	....	15.00	....
Diploma	....	....	....	....	....	10.00
	$87.50	$62.50	$77.50	$62.50	$77.50	$72.50

NON-ILLINOIS STUDENTS

Non-Illinois Students pay fees as indicated above except that the tuition fee is $60 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories. The laboratory deposit covers breakage or damage to apparatus furnished by the School. From this deposit will be deducted the charges for apparatus broken, missing or not returnable, also a locker fee of $1 if the student uses a locker in the coatroom.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

LISTENER'S FEE.—Persons not connected with the University who attend classes as listeners, pay for each course, each semester, $7.50.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Exceptions to this rule will be made only with the approval of the proper administratve officer. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees except the matriculation fee will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees paid will be refunded.

BOARD AND LODGING.—The expense of board and room together is from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary. Students are advised to defer engaging board and room until they arrive in the city, when arrangements can be made readily and quickly.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

CHICAGO BRANCH OF THE A. PH. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

STATE REGISTRATION

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

W. B. Day, *Dean*
701 South Wood St., Chicago, Ill.

PROVISIONAL SCHEDULE—FIRST YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9–10 a. m. Pharmacy Recitation Sections 1, 2, 3.	9 a. m.–12 m. Botany Laboratory Section 3.	9–10 a. m. Arithmetic Recitation Sections 1, 2, 3.	9 a. m.–12 m. Botany Laboratory Section 1.	9–10 a. m. Arithmetic Recitation Sections 1, 3, 4.
10–11 a. m. Chemistry Lecture	10–11 a. m. Arithmetic Recitation Sections 1, 2, 4.	10–11 a. m. Pharmacy Lecture	10–11 a. m. Botany Recitation Sections 3, 4.	10–11 a. m. Chemistry Lecture
11 a. m.–12 m. Pharmacy Lecture	11 a. m.–12 m. Chemistry Recitation Sections 1, 2, 4	11 a. m.–12 m. Botany Lecture	11 a. m.–12 m. Arithmetic Recitation Sections 2, 3, 4.	11 a. m.–12 m. Botany Lecture
1–2 p. m. Pharmacy Recitation Section 4.	1–2 p. m. Chemistry Recitation Section 3.	1–2 p. m. Botany Recitation Sections 1, 2.	1–5 p. m. Chemistry Laboratory Section 4.	1–2 p. m. Chemistry Lecture
1–5 p. m. Chemistry Laboratory Section 1.	1–5 p. m. Chemistry Laboratory Section 2.	1–5 p. m. Chemistry Laboratory Section 3.	1–4 p. m. Pharmacy Laboratory Section 3.	
1–4 p. m. Pharmacy Laboratory Section 2.	1–4 p. m. Pharmacy Laboratory Section 1.	1–4 p. m. Pharmacy Laboratory Section 4.	1–4 p. m. Botany Laboratory Section 2.	
	1–4 p. m. Botany Laboratory Section 4.			

PROVISIONAL SCHEDULE—SECOND YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9 a. m.–12 m. Pharmacognosy Laboratory Section 3.	9–10 a. m. Chemistry Lecture	9 a. m.–12 m. Pharmacognosy Laboratory Section 1.	9–10 a. m. Chemistry Lecture	9 a. m.–12 m. Pharmacognosy Laboratory Section 2. Chemistry Laboratory Section 3.
10–11 a. m. Pharmacy Recitation Sections 1, 2.	10–11 a. m. Pharmacy Lecture	9–10 a. m. Pharmacy Recitation Section 2.	10–11 a. m. Pharmacy Lecture	11 a. m.–12 m. Materia Medica Recitation Section 1.
11 a. m.–12 m. Chemistry Recitation Sections 1, 2.	11 a. m.–12 m. Materia Medica Lecture	10 a. m.–12 m. Pharmacy Laboratory Section 2. 10–11 a. m. Pharmacy Recitation Section 3. 11 a. m.–12 m. Chemistry Recitation Section 3.	11 a. m.–12 m. Materia Medica Lecture	
1–2 p. m. Pharmacognosy Recitation Section 1. Pharmacy Recitation Section 2.	1–2 p. m. Chemistry Lecture	1–2 p. m. Pharmacy Recitation Section 3. Pharmacognosy Recitation Section 2.	1–2 p. m. Chemistry Lecture	1–2 p. m. Pharmacy Recitation Section 1. Pharmacognosy Recitation Section 3.
1–5 p. m. Chemistry Laboratory Section 3.	2–3 p. m. Materia Medica Recitation Section 3. Pharmacy Recitation Section 1.	1–5 p. m. Chemistry Laboratory Section 1.	2–3 p. m. Materia Medica Recitation Section 2. Pharmacy Recitation Section 3.	1–5 p. m. Chemistry Laboratory Section .2
2–5 p. m. Pharmacognosy Laboratory Section 1. Pharmacy Laboratory Section 2.	2–5 p. m. Chemistry Laboratory Section 2. 3–5 p. m. Pharmacy Laboratory Section 1.	2–5 p. m. Pharmacognosy Laboratory Section 2. Pharmacy Laboratory Section 3.	2–5 p. m. Chemistry Laboratory Section 1. 3–5 p. m. Pharmacy Laboratory Section 3.	2–5 p. m. Pharmacy Laboratory Section 1. Pharmacognosy Laboratory Section 3.

DEGREES, 1926

Degree of Graduate in Pharmacy

Edward Aronofsky
Charles Wendell Aldrich
Ralph Edwin Anderson
Walter E. Barnes, Jr.
Josephine Anna Barnett
Charles Wilbur Bashaw
Charles George Baskes
James Olgen Basta
Edwin F. Baumrucker
Alfred Frederick Belz
Archie Louis Berman
Maurice Bernstein
Lucian Scott Berry
David Jerome Brody
Edward Frederick Brown
Harry Leroy Burke
Conrad George Briel
Leo Milton Chessen
Jerry Joseph Cerny
Lloyd Edwin Chamberlin
Cuthbert Welcome Choisser
William Cody
John Donald Cooper
Catherine Marie Curran
Dora Noah DaCosta
Edwin George Daniels
Stuart Martin Driss
Ossa Marguerite Duff
Irwin Arnold Duskin
Steven Dulla
Arthur Marshall Earl
Walter A. Elliott
Julius N. Livingston Epstein
Fred George Factor
Hugh Wilson Felker
Sidney U. Frazin
Lester John Frohs
Henry Fuchs
Joseph Vincent Gadzinski
Walter Edward Giese
Saturnino Paul Giudici
Roy Anthony Gohr
Julian Harold Goldsmith
Roman Mathew Gonia
Edward William Gorchow
Hattie Theresia Gorecki
Monte Greengard
Dannie Greenslet
John J. Haas
Harry Halperin
Thomas Wesley Hamill
Nels Theodore Hanson
Joseph Kenneth Hellmuth
Ruth Wilma Herdlicka
Mandel Herman
Thomas Harvey Hicks
Ad Brown Hinton
Henry Isadore Hoffman
Leo Honoroff
Abe Horwitz
Agnes Alvina Hunkler
Malcolm LeeRoy Hurless
Clarence Edward Hutchison
Israel Irving Hyman
Harry Martin Isenberg
Roy Lewis Jabusch
Norman Keith Jackson
Charles Jacobson
Victor Herbert Jacobson
Adam Martin Jankowski
Milton Burdell Johnson
George Ignatius Kaspar
Theophile Albert Kempa
Emanuel Marvin Kesert
Elizabeth Marie Kieradlo
Sidney Klein
Marian Albert Klos
Ervin William Koci
Frank J. Kohout
Arthur Henry Kolb
Jerry James Kostohryz
Joseph Adam Kozlowski
Frederick Emanuel Krauss
Solomon Kozlov
Ernest George Lambesis
Ralph Herman Lange
Roland Paul Larsen
Sam Lasinsky
Earl Howard Lavender
Abe Levin

Joseph Anthony Lewicki
Marshall James Lightfoot
Edmund John Linowiecki
Eugene George Lipow
Sam Maram
Frank Albert Marek
John Stephen Martin
Floyd Francis Mathews
John Edward McCann
Guy Gordon McCandlish
Wilbur M. McKinley
John Walter Meara
George Adam Meyer
Howard Deloss Miller
Jack Mishlove
Ladislaus Aloysius Misiora
Peter Nicholas Mlotkowski
Charles Raymond Moore
Orville Dale Morse
Theodore Mueller
Ward Hainline McMasters
Knute Moritz Nelson
Barney Newman
Chester Edward Niespodziany
Samuel Noskin
Cecil F. Oakley
Henry William Obartuch
Joseph Edwin O'Connor
Herman Louis Olivo
Carl Albert Otto
Chester Louis Peters
Charles Frank Plhak
Maurice Potkin
Harold Price
Adolph Edward Prouza
Harry Barney Raphael
Jack I. Reader
David Rice
Leo Rifas
Theresa Mildred Romano
Harry Roth
Leslie Henry Rueckert
Louis Herman Sachs
Paul Samuel Sang
Hosea George Sawyer
Andrew Charles Scherer
Arthur Victor Schmid
Alfred William Schmitt
Harry Milton Schwartz
Harold Kent Seaney
Edward Edgar Seidmon
John Francis Seward
Amelia Katherine Sharkey
Herman Wadsworth Shaw
Bernard P. Sheehan
Hazel I. Shelton
Otho Carl Sherrick
Frank Ambrose Shimkus
Benjamin Shulman
Maurice Samuel Singer
Roman Peter Sroczynski
Paul S. Steinberg
Fred Charles Straka
Albert Stanley Swienton
Clifford John Thiel
Arnold Albert Thompson
William Jay Ueber
Cecil Ross Veatch
Paul Francis Volpe
Samuel Vrablik, Jr.
Max M. Warsaw
Glenn Thomas Wattles
W. R. Waxler, Jr.
Arthur Otto Wetzel
Wilfred Cecil White
Melvin William Will
Owen Williams
Harry Witkin
Julius Seymour Wolff
Morris Wolfson
Frank Leonard Zaucha
Reuben Zeitlin
Roscoe Franklin Zipse
Leo Sidney Baewsky (Class of 1924)
Joseph A. DeGrazio (Class of 1924)
Robert N. Reis (Class of 1924)
William Bannister Barryte (Class of 1925)
Paul Brian Bass (Class of 1925)
William R. Benson (Class of 1925)
Armond T. Foster (Class of 1925)
Barney Galatzer (Class of 1925)
Arthur A. Goldstein (Class of 1925)
Anthony J. Jakubowski (Class of 1925)
Chester A. Jarecki (Class of 1925)
Harry A. Klein (Class of 1925)
Joseph Masal Krinsky (Class of 1925)
Morris Lukinsky (Class of 1925)
Melvin F. Lossman (Class of 1925)
David M. Malina (Class of 1925)

Samuel H. Mitlin (Class of 1925)
Isadore L. Pitchman (Class of 1925)
George J. Pudil (Class of 1925)
Emilio Carl Romano (Class of 1925)
John B. Seyler (Class of 1925)
Julius Silberman (Class of 1925)
Leroy Smith (Class of 1925)
Feliks L. Wojtalewicz (Class of 1925)
William J. Zimmerman (Class of 1925)

Certificates

William Francis Borrelli
Eugene Nathan Cohen
Howard Covinsky
Murray Sayle DuMont
Joseph Andrew Forbrich
Cecelia Wanda Furmaniak
George Fred Gerdung
Alice True Haller
Ethel Lillian Herdlicka
Barlow Wessley Hill
Kenmore Hoos
Alexander Hoyer
Leon Alan Kaplan
John Keppl
David Max Laskov
William Maram
Urban Oscar Oakdale
Herman I. Oberman
Harold Pales
Lillian Elizabeth Picker
David Radner
Isadore Howard Raff
Reuben M. Reifler
David Jerome Riback
Morris Rice
Benjamin Irving Schultz
Jack J. Weissman
Theodor Gustave Wolff
John B. Wotell, Jr.
Bohumil Zeman

Honors

Archie Louis Berman
Paul Samuel Sang

Prizes

The Leo L. Mrazek Prize—Archie Louis Berman
The Andrew Scherer Prize—John Stephen Martin
Hodel-Saltiel-Hodel Prize—Guy Gordon McCandlish
Lee M. Pedigo Materia Medica Prize—Bohumil Zeman
A.Ph.A. Membership in Pharmacognosy—Catherine Curran
A.Ph.A. Membership in Pharmacy—David Radner
A.Ph.A. Membership in Chemistry—Paul Samuel Sang
The William Gray Membership A Ph.A.—Cecil Ross Veatch

LIST OF STUDENTS 1925-1926

COURSE FOR GRADUATE IN PHARMACY

SENIORS

Adkisson, Charles Howard	*Chicago*
Aldrich, Charles Wendell	*Springfield*
Alexander, Richard Jay	*Vermont*
Anderson, Ralph Edwin	*Farmington*
Aronofsky, Edward	*Chicago*
Barnes, Walter Edward, Jr.	*Chicago*
Barnett, Josephine Anna	*Chicago*
Bashaw, Charles Wilbur	*Savanna*
Baskes, Charles George	*Chicago*
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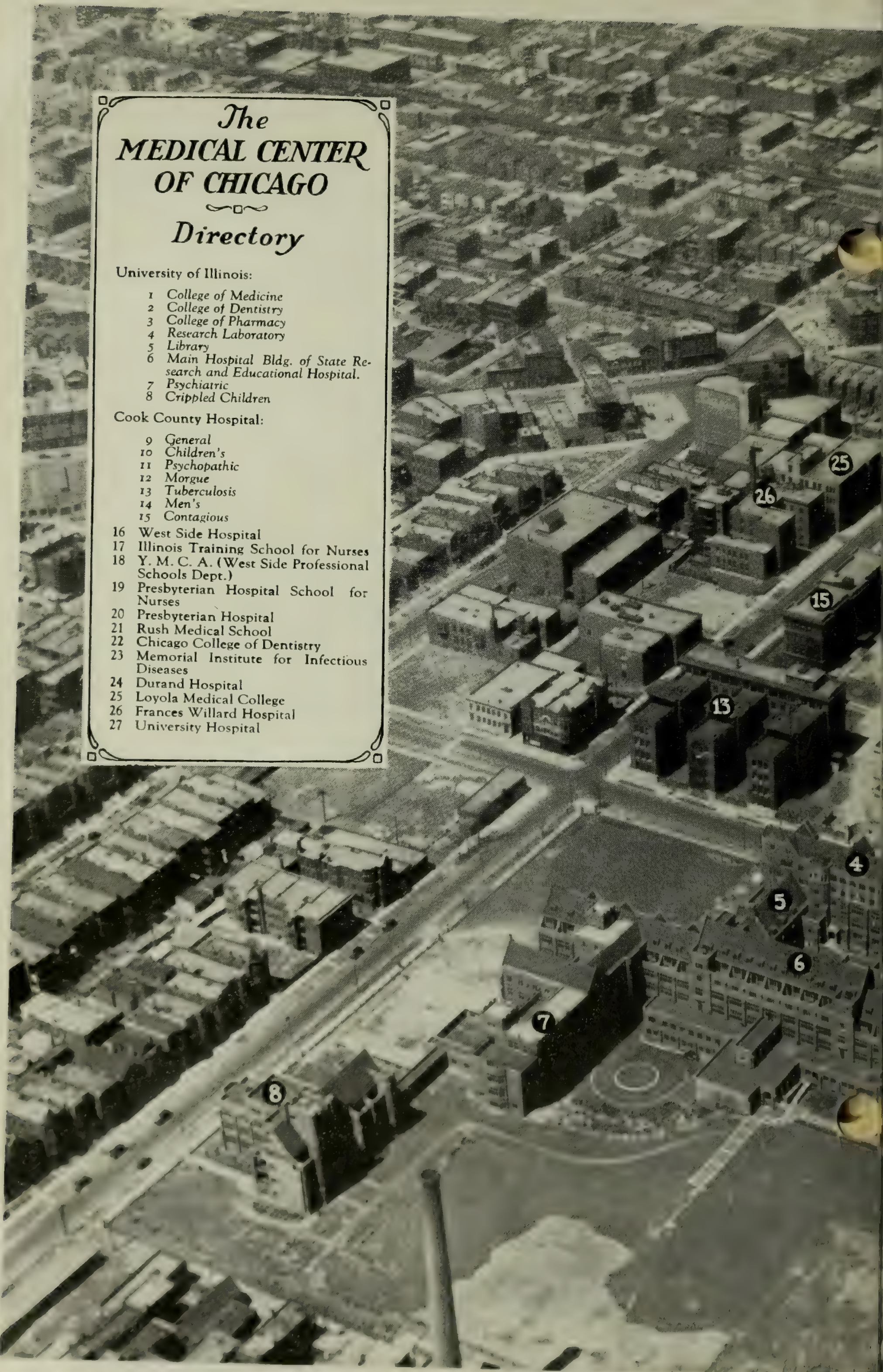

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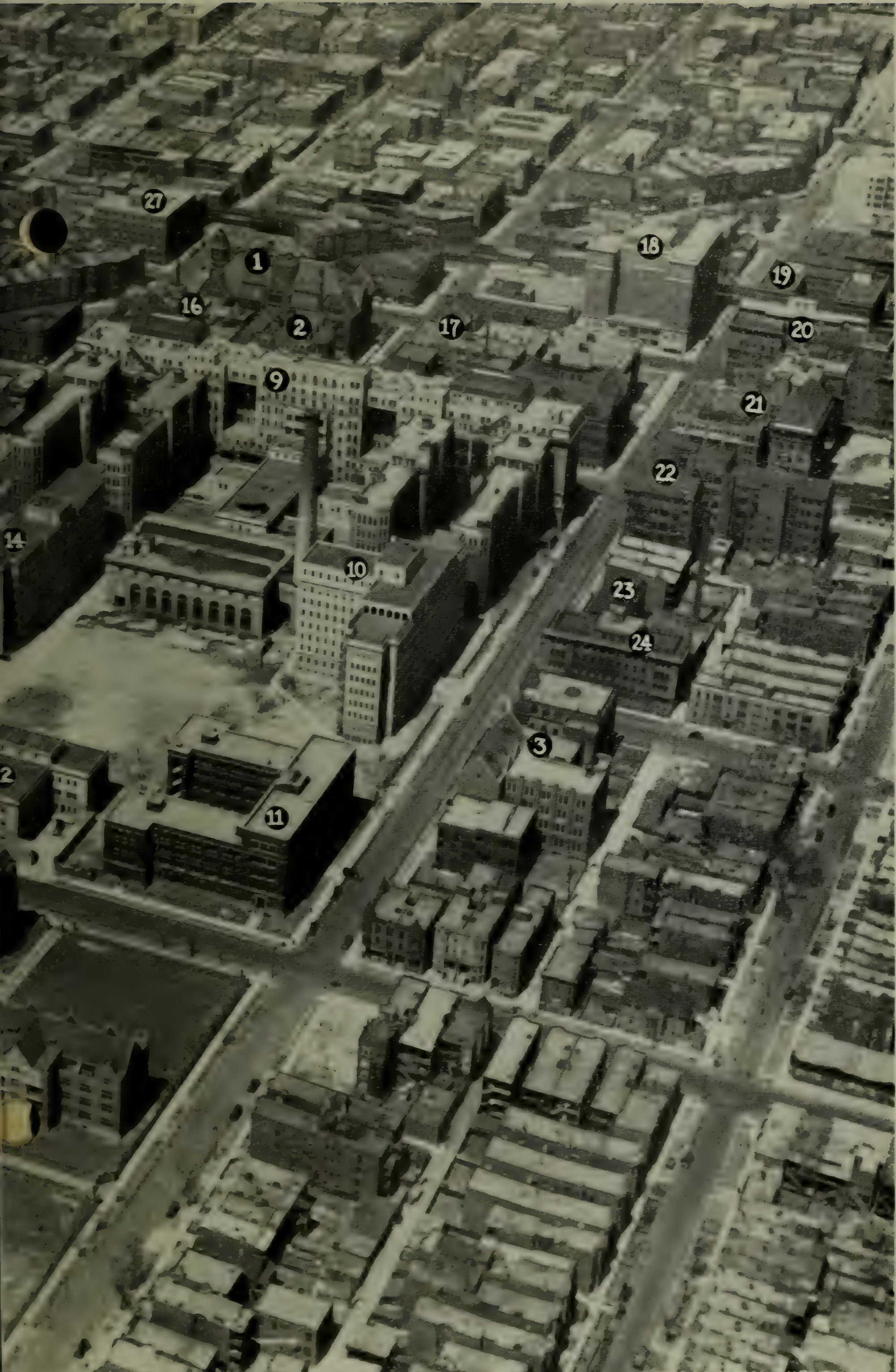
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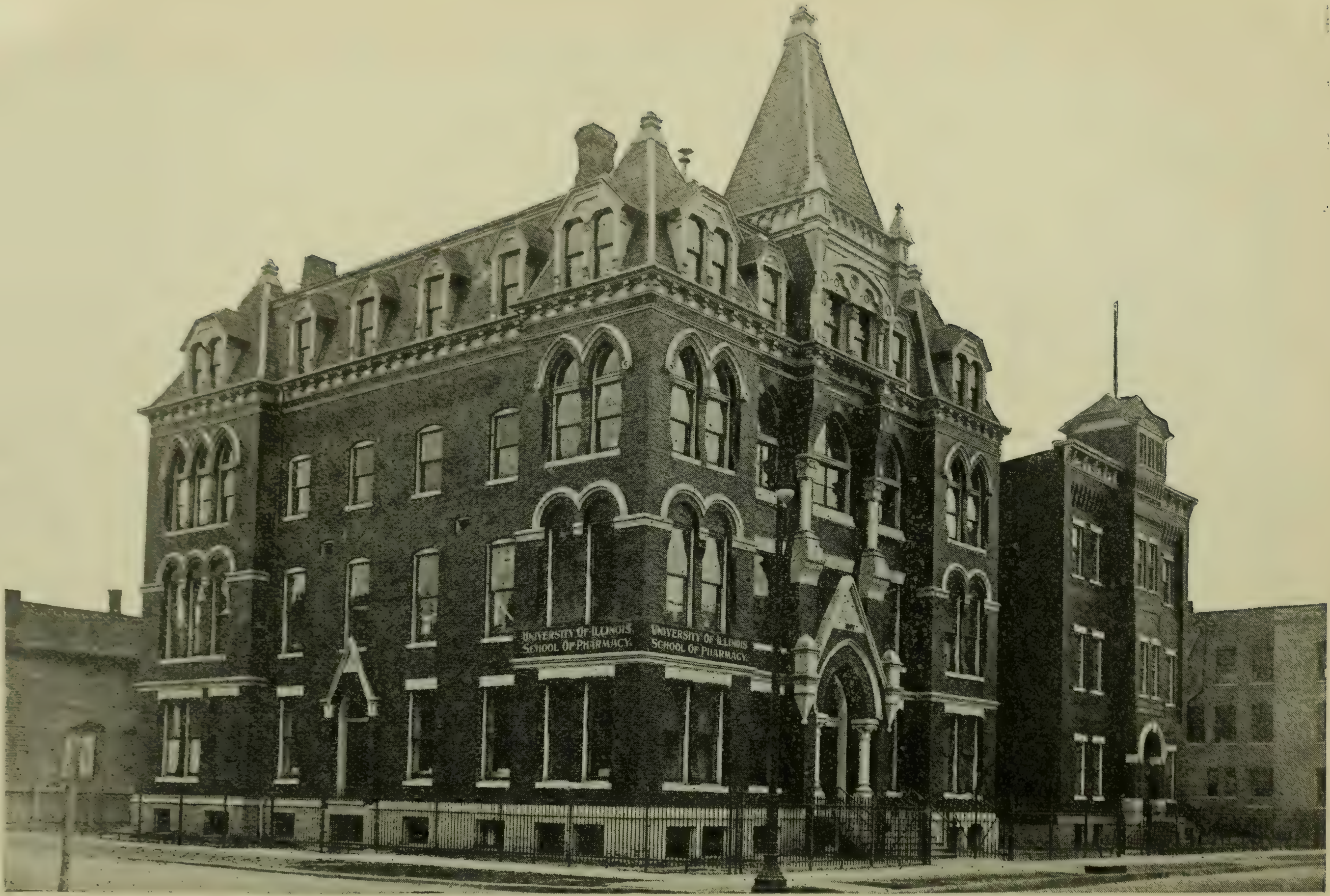
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Anna Wilmarth Ickes
Merle J. Trees
William L. Noble, *Chairman*

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J. F. Shreve, Jacksonville
John H. Harsch, Peoria
Leo L. Mrazek, Chicago
Fred W. Rauth, Springfield
Byron Armstrong, Jacksonville

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1928/29

OFFICERS OF ADMINISTRATION

1927-28

David Kinley, Ph.D., LL.D., *President*

William Baker Day, Ph.G., Pharm.M., *Dean*
George Philip Tuttle, Jr., B.S., *Registrar*
Lloyd Morey, A.B., B. Mus., C.P.A., *Comptroller*
William H. Browne, *Secretary, College of Medicine and Business Manager of Chicago Departments*
Mary M. Scanlan, *Secretary to the Dean*

University Committee

Committee on Discipline for the Chicago Professional Schools:
Dean Day, Dean Davis (*Chairman*), Dean Noyes, Secretary Browne (*Clerk*).

FACULTY—1927-1928

DAVID KINLEY, Ph. D., LL.D.
President of the University

WILLIAM BAKER DAY, Ph.G., Pharm.M.
Dean, Professor of Materia Medica and Botany

CLYDE MASON SNOW, Ph.G., A.M.
Professor of Pharmacy

ALBERT HENRY CLARK, Ph.G., B.S., M.S.
Professor of Chemistry

EDMUND NORRIS GATHERCOAL, Ph.G.
Professor of Pharmacognosy

HUGH LESLIE DAVIS, B.S., M.S., Ph.D.
Assistant Professor of Chemistry

ELMER HAUSER WIRTH, Ph.C., B.S., M.S.
Assistant Professor of Botany and Materia Medica

RALPH EUGENE TERRY, Ph.G., B.S., M.S.
Assistant Professor of Pharmacy

GEORGE LEWIS WEBSTER, Ph.G., B.S.
Associate in Chemistry

CHARLES WILDMAN CLARKE, B.S., M.S.
Associate in Chemistry

JAMES TOBIAS GROOT, B.S., M.D.
Lecturer in Physiology

SHERMAN WILLIAM MORRISON, Ph.C., B.S., M.S.
Instructor in Pharmacy

LEWIS ELBERT MARTIN, Ph.G.
Instructor in Pharmacy

HERBERT MARTIN EMIG, Ph.G., B.S.
Instructor in Pharmacy

SEWARD E. OWEN, Ph.C., Ph.G., B.S., M.S.
Instructor in Botany and Materia Medica

LEONARD DANA POWERS, B.S., M.S.
Instructor in Chemistry

JOHN AUGUST DORJAHN, Ph.G.
Assistant in Botany and Materia Medica

JOSEPH CHARLES OCENASEK, Ph.G.
Assistant in Pharmacy

ESTHER MEYER, Ph.G.
Assistant in Botany and Materia Medica

REBECCA ROSENBLUM, Ph.G.
Assistant in Chemistry

MEYER BALIN, Ph.G.
Assistant in Pharmacy

PAUL DAVID CARPENTER, Ph.G.
Assistant in Botany and Materia Medica

SAMUEL SHKOLNIK, Ph.G.
Assistant in Pharmacy

REUBEN MAX REIFLER, Ph.G.
Assistant in Pharmacy

HARRY LEROY BURKE, Ph.G.
Assistant in Chemistry

THEODORE MUELLER, Ph.G.
Assistant in Chemistry

RAY ARTHUR PATELSKI, B.S.
Assistant in Chemistry

LAURENCE TEMPLETON, B.S.
Assistant in Pharmacy

ALFRED HENRY ILLGE, Ph.C., B.S.
Assistant in Botany and Materia Medica

VIVIAN JOSEPHINE STUCHLIK, Ph.G.
Assistant in Botany and Materia Medica

This School holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

CALENDAR

1928-29

FIRST SEMESTER

October 1, Monday, 8 a. m.-5 p. m.
Registration and payment of fees[1]

October 2, Tuesday, 9 a. m.
Instruction begun

November 28, Wednesday, 12 m.
Thanksgiving recess begun

December 3, Monday, 9 a. m.
Instruction resumed

December 22, Saturday, 5 p. m.
Holiday recess begun

January 3, 1929, Thursday, 9 a. m.
Instruction resumed

January 28-February 1, Monday-Friday
Semester examinations

SECOND SEMESTER

February 4, Monday, 8 a. m.-5 p. m.
Registration and payment of fees

February 5, Tuesday, 9 a. m.
Semester instruction begun

March 28, Thursday, 5 p. m.
Easter recess begun

April 1, Monday, 9 a. m.
Instruction resumed

May 30, Thursday
Memorial Day

May 20-May 31, Monday-Friday
Final examinations

June 6, Thursday
Alumni Meeting

June 8, Saturday
Commencement
Chicago Professional Schools of the University

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[1] Only students who have been matriculated may register. Matriculation of freshmen begins March 1st.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists nominated by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the school on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the school the building at 721 South Wood Street formerly occupied by the Institute for Juvenile Research.

LOCATION

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

The Lecture Rooms

There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

The Laboratories

Ten laboratories having a total capacity of 700 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. An equipment of machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

THE LIBRARY

The Library contains over five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

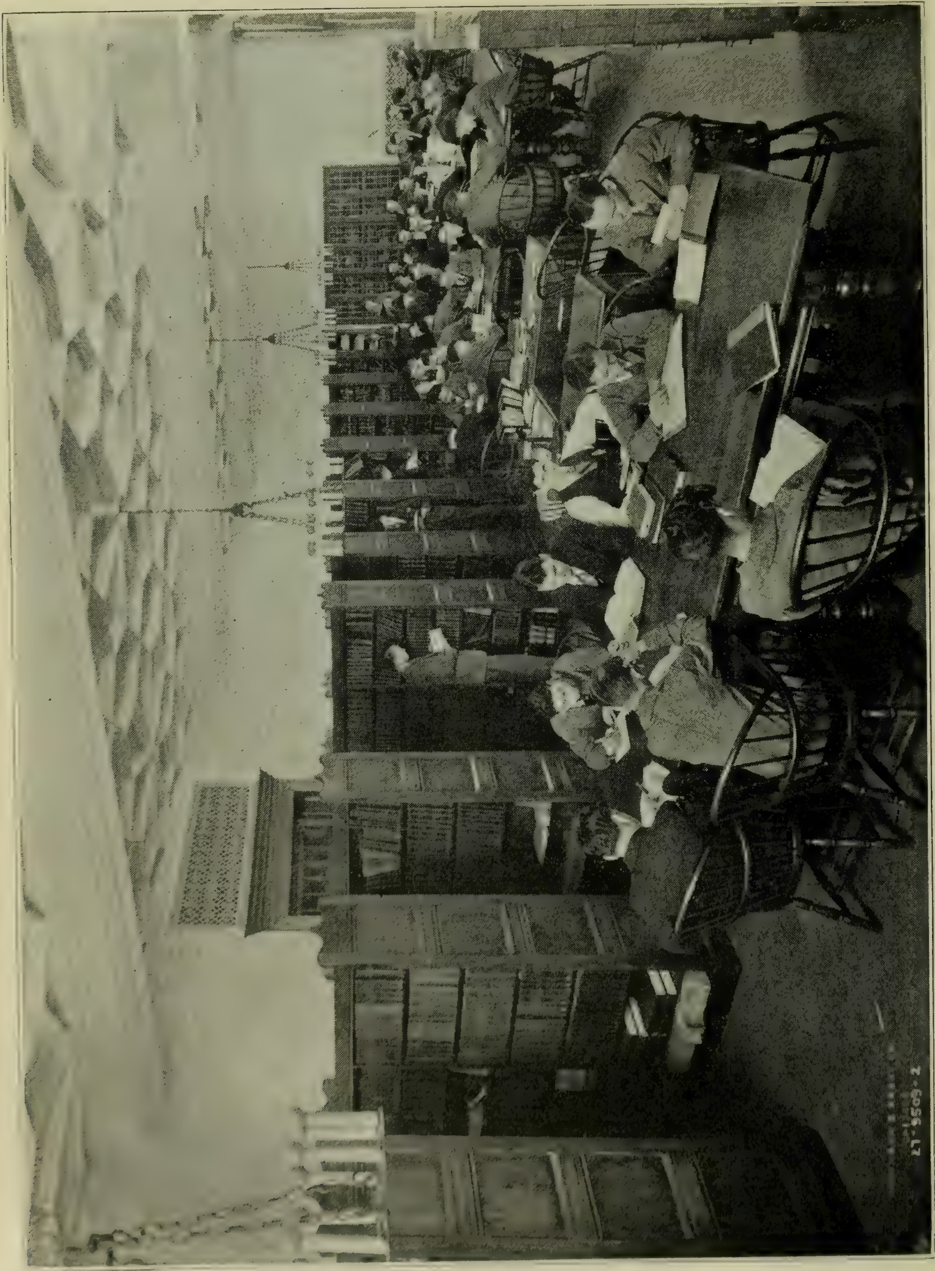
THE MUSEUM

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

THE STUDENTS' ROOMS

Two locker rooms for students are provided with 500 steel lockers for coats, hats, and books. A rest room for women students is also provided.



LIBRARY

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. Age

The applicant must be at least seventeen years of age.

2. Non-Illinois Students

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.*, in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. High-School Graduation

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. Prescribed Subjects

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

List A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

5. ELECTIVES

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B

	Units
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
English (4th unit)	1
Advanced algebra	½–1
Solid Geometry	½
Trigonometry	½
History[1]	1–4
Civics	½–1
Economics and economic history	½–1
Commercial geography	½–1
Physiography	½–1
Physiology	½–1
Zoology	½–1
Botany	½–1
Physics	1–2
Chemistry	1–2

6. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]

Astronomy	½
Geology	½–1
Agriculture	1–3
Bookeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics)	½
Domestic science	1–3
Drawing, art and design	½–1
Drawing, mechanical	½–1
Manual training[3] or farm mechanics	1–2

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

General science	½–1
Foreign language (other than those of List B)	1–2
Music	1–2
Shorthand and typewriting (when offered together)	1–2
Typewriting (when offered alone in double periods)	1

How the Entrance Requirements May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.
2. From schools accredited by the North Central Association of Colleges and Secondary Schools.
3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From schools approved by the New England College Entrance Certificate Board.
6. From schools accredited by the Southern Association of Colleges and Secondary Schools.
7. From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

High-School Credits by Examination

High-School credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.
2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.
3. In the examinations conducted in June of each year by the College Entrance Examination Board.
4. In the examinations conducted by the Regents of the University of the State of New York.

7. State Qualifying Certificate

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application. A fee of $1 must be paid to the State Department of Education and Registration for this certificate.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The Degree of Pharmaceutical Chemist

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

(The degree of Graduate in Pharmacy was discontinued with the school year 1925-1926.)

Requirement of C in Three-Fourths of Work for the Degree

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, Good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

The course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Assistant Professor WIRTH,
Dr. GROOT Mr. OWEN, Mr. DORJAHN, Miss MEYER, Mr. CARPENTER,
Mr. ILLGE, Miss STUCHLIK

FIRST YEAR

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor DAY, Professor GATHERCOAL, Mr. OWEN, Mr. CARPENTER

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. GROOT.

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Professor GATHERCOAL, Mr. OWEN, Mr. CARPENTER.

SECOND YEAR

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN·

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Assistant Professor Wirth, Mr. DORJAHN, Miss STUCHLIK.

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN.

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Assistant Professor WIRTH, Mr. DORJAHN, Miss STUCHLIK.

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.

Professor GATHERCOAL, Miss MEYER, Mr. ILLGE

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and microchemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester. Mr. OWEN, Mr. CARPENTER

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER,
Mr. POWERS, Miss ROSENBLUM, Mr. BURKE, Mr. PATELSKI,
MR. MUELLER

FIRST YEAR

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester. Assistant Professor DAVIS, Mr. PATELSKI, Mr. BURKE

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.

Assistant Professor DAVIS, Mr. BURKE, Mr. PATELSKI

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester. Assistant Professor DAVIS, Mr. PATELSKI

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U. S. P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. BURKE

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Miss ROSENBLUM

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. BURKE.

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Miss ROSENBLUM.

THIRD YEAR

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK.

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Mr. WEBSTER, Mr. POWERS.

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS.

PHARMACY

Professor SNOW, Assistant Professor TERRY, Mr. MARTIN,
Mr. MORRISON, Mr. EMIG, Mr. OCENASEK, Mr. SHKOLNIK,
Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMEPLETON.

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON.

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official

preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. BALIN, MR. SHKOLNIK, Mr. REIFLER, Mr. TEMPLETON

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN Mr. REIFLER, MR. TEMPLETON

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

SECOND YEAR

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic,and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Mr. MARTIN, Mr. OCENASEK

THIRD YEAR

10. *Operative Pharmacy.*—3 lectures and recitations and 2 laboratory periods of 3 hours each week. (5 semester hours, 9 clock hours.) First semester.

Assistant Professor TERRY, MR. EMIG

11. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor TERRY, Mr. EMIG, MR. SHKOLNIK

12 *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) Second semester.

Assistant Professor TERRY, MR. EMIG, Mr. SHKOLNIK

13. *Advanced Dispensing.*—3 lectures and recitations, 2 laboratory periods of 3 hours each week. (5 semester hours, 9 clock hours.) Second semester.

Assistant Professor TERRY, Mr. EMIG

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years.

Mr. MORRISON

SUMMARY OF THE THREE-YEAR CURRICULUM

FIRST YEAR

First Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 1, 2 & 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Totals for the Semester	14	10	24	17
Second Semester				
Pharmacy 4 & 5	4	3	7	5
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Totals for the Semester	12	13	25	16
SECOND YEAR				
First Semester				
Pharmacy 6 & 7	4	6	10	6
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Totals for the Semester	13	19	32	19
Second Semester				
Pharmacy 8 & 9	4	6	10	6
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Totals for the Semester	13	19	32	19
THIRD YEAR				
First Semester				
Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Totals for the Semester	10	23	33	17
Second Semester				
Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Dispensary	..	3	3	1
Totals for the Semester	8	23	31	15

Total Semester hours in 3 years....103

Average number of clock hours a week a semester.... 29

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Association of Colleges of Pharmacy. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

WOMAN'S LOAN FUND

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund. With accumulated interest the total amount in the fund is $605.34. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a freshman student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo. L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

MATERIA MEDICA PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who, in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	....	....	....	....	....
Tuition	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]	15.00	15.00	20.00	20.00	20.00	20.00
Laboratory deposit[2]	15.00	....	15.00	....	25.00	....
Diploma	....	....	....	....	....	10.00
	$90.00	$65.00	$85.00	$70.00	$95.00	$80.00

NON-ILLINOIS STUDENTS

Non-Illinois Students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories The laboratory deposit covers breakage or damage to apparatus furnished by the School. From this deposit will be deducted the charges for apparatus broken, missing, or not returnable, also a locker fee of $1 if the student uses a locker in the coatroom.

[3] Each student is entitled to one transcript of record without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

Listener's Fees—Persons not connected with the University who attend classes as listeners, pay for each course, each semester, $7.50.

Payment of Fees.—All fees are payable in advance during the registration days of each semester. Exceptions to this rule will be made only with the approval of the proper administrative officer. Special students pay no matriculation nor diploma fees.

Rebates of Fees.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

Board and Lodging.—The expense of board and room together is from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary.

The new ten-story Y. M. C. A. building, located just two blocks north of the school, affords a comfortable home for students.

Books.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Credentials Accepted for Admission.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

Chicago Branch of the A. Ph. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

The Dean
701 South Wood St., Chicago, Ill.

PROVISIONAL SCHEDULE—FIRST YEAR

FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9–10 a. m. Arithmetic Recitation Section 2-R-142 Section 3-R-213 Section 4-R-141	9–10 a. m. Arithmetic Recitation Section 1-R-334 Section 2-R-142	9–10 a. m. Arithmetic Recitation Section 1-R-334 Botany Recitation Section 3-R-213 Section 4-R-141	9–10 a. m. Arithmetic Recitation Section 3-R-213 Section 4-R-141	9–10 a. m. Pharmacy Recitation Section 1-R-334 Section 2-R-142 Chemistry Recitation Section 3-R-213 Section 4-R-141
10–11 a. m. Pharmacy Lecture R-413	10–11 a. m. Chemistry Recitation Section 1-R-334 Section 2-R-142	10–11 a. m. Pharmacy Lecture R-413	10–11 a. m. Pharmacy Recitation Section 3-R-213 Section 4-R-141 Botany Recitation Section 1-R-334 Section 2-R-142	10–11 a. m. Arithmetic Recitation Section 1-R-334 Section 2-R-142 Section 3-R-203 Section 4-R-141
11 a. m.–12 m. Botany Lecture R-413	11 a. m.–12 m. Chemistry Lecture R-340	11 a. m.–12 m. Botany Lecture R-413	11 a. m.–12 m. Chemistry Lecture R-340	11 a. m.–12 m. Chemistry Lecture R-340
1–5 p. m. Chemistry Laboratory Section 1 R-331	1–5 p. m. Chemistry Laboratory Section 3 R-331	1–5 p. m. Chemistry Laboratory Section 2 R-331	1–5 p. m. Chemistry Laboratory Section 4 R-331	1–5 p. m. Reserved for Examinations
1–4 p. m. Pharmacy Laboratory Section 2 R-120	1–4 p. m. Pharmacy Laboratory Section 1 R-120	1–4 p. m. Pharmacy Laboratory Section 4 R-120	1–4 p. m. Pharmacy Laboratory Section 3 R-120	
1–4 p. m. Botany Laboratory Section 3 R-432	1–4 p. m. Botany Laboratory Section 4 R-432	1–4 p. m. Botany Laboratory Section 1 R-432	1–4 p. m. Botany Laboratory Section 2 R-432	

PROVISIONAL SCHEDULE—SECOND YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Pharmacy 6 Recitation Section 3-R-334	9-10 a. m. Chemistry 6 Recitation Section 2-R-141 Section 3-R-213	9-10 a. m. Chemistry 6 Recitation Section 1-R-142	9-10 a. m. Materia Medica Recitation Section 3-R-142	9 a. m.-12 Pharmacognosy Laboratory Section 2 Room 113 Chemistry 5 Laboratory Section 1 Room 220 Pharmacy 7 Laboratory Section 3 Room 231
10-11 a. m. Chemistry 6 Lecture Room 340	10-11 a. m. Pharmacy 6 Lecture Room 413	10-11 a. m. Pharmacy 6 Recitation Section 1-R-141 Section 2-R-142	10-11 a. m. Pharmacy 6 Lecture Room 413	
11 a. m.-12 m. Materia Medica Recitation Section 1-R-141 Section 2-R-142	11 a. m.-12 m. Materia Medica Lecture R-413	11 a. m.-12 m. Chemistry 6 Lecture Room 340	11 a. m.-12 m. Materia Medica Lecture Room 413	
1-2 p. m. Pharmacognosy Recitation Section 1-R-213 Pharmacy 7 Recitation Section 2-R-142	1-2 p. m. Chemistry 5 Lecture Room 340	1-2 p. m. Pharmacognosy Recitation Section 2-R-213 1-2 p. m. Pharmacy 7 Recitation Section 3-R-142	1-2 p. m. Chemistry 5 Lecture Room 340	1-2 p. m. Pharmacy 7 Recitation Section 1 Room 142 Pharmacognosy Recitation Section 3 Room 213
1-5 p. m. Chemistry 5 Laboratory Section 3-R-320		1-5 p. m. Chemistry 5 Laboratory Section 1-R-220		1-5 p. m. Chemistry 5 Laboratory Section 2 Room 220
2-5 p. m. Pharmacognosy Laboratory Section 1-R-113 Pharmacy 7 Laboratory Section 2-R-113	2-5 p. m. Pharmacy 7 Laboratory Section 1 Room 231 Chemistry 5 Laboratory Section 2 Room 220 Pharmacognosy Laboratory Section 3-R-113	2-5 p. m. Pharmacognosy Laboratory Section 2-R-113 Pharmacy 7 Laboratory Section 3-R-231	2-5 p. m. Chemistry 5 Laboratory Section 3-R-320 Pharmacy 7 Laboratory Section 2-R-231 Pharmacognosy Laboratory Section 1-R-113	2-5 p. m. Pharmacy 7 Laboratory Section 1 Room 231 Pharmacognosy Laboratory Section 3 Room 213

PROVISIONAL SCHEDULE—THIRD YEAR
FIRST SEMESTER

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 a. m.-12 m. Chemistry 10 Laboratory Section 1-R-431		8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431	8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		
9 a. m.-12 m. Bacteriology Laboratory Section 2-R-215 Pharmacy Laboratory Section 3-R-131	9 a. m.-12 m. Pharmacognosy Laboratory Section 3-R-113 Bacteriology Laboratory Section 1-R-215	9 a. m.-12 m. Pharmacy Laboratory Section 1-R-131	9 a. m.-12 m. Bacteriology Laboratory Section 1-R-215 Pharmacognosy Laboratory Section 3-R-113	9-10 a. m. Pharmacy Seminar Room 413	9 a. m.-12 m. Bacteriology Laboratory Section 1-R-215
	11 a. m.-12 m. Bacteriology Recitation Section 2-R-213			10-11 a. m. Chemistry 9 Lecture Room 340	
	1-2 p. m. Pharmacy Lecture Room 413			11 a. m.-12 m. Pharmacy Lecture Room 413	
1-4 p. m. Pharmacy Laboratory Section 2-R-131	2-3 p. m. Chemistry 10 Lecture Room 340	1-2 p. m. Bacteriology Recitation Section 1-R-141	1-2 p. m. Bacteriology Lecture Sections 1 & 2 Room 413	1-2 p. m. Bacteriology Lecture Sections 1 & 2 Room 413	
1-5 p. m. Chemistry 10 Laboratory Section 1-R-431	3-4 p. m. Chemistry 9 Lecture Room 340	1-4 p. m. Pharmacy Laboratory Section 3-R-131 Bacteriology Laboratory Section 2-R-215	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	
			2-5 p. m. Pharmacy Laboratory Section 2-R-131	2-5 p. m. Pharmacy Laboratory Section 1-R-131 Bacteriology Laboratory Section 2-R-215	

DEGREES, 1928

Degree of Pharmaceutical Chemist

Barbee, Charles Dennison	*St. Elmo*
Barenbaum, Benjamin	*Chicago*
Berdine, Dwight V.	*Farmington*
Berliant, Ernest S.	*Chicago*
Blatt, Louis A.	*Chicago*
Blaufuss, Armin Louis	*Denver, Iowa*
Block, Samuel	*Chicago*
Bordesky, Reuben	*Chicago*
Burns, Robert McNamar	*Alexis*
Chiaverina, John	*Farmington*
Colitz, Albert	*Chicago*
Corcoran, Vincent Anthony	*Chicago*
Czaja, William Francis	*Cicero*
Davis, Frank	*Chicago*
Dorf, Hyman	*Chicago*
Drake, Donald William	*Waterman*
Drallmeier, Roy E.	*Quincy*
Dry, Laurence Revelle	*DuQuoin*
Eyer, Lorenze Blough	*Chicago*
Fine, Harry Jacob	*Chicago*
Finn, Harry	*Chicago*
Freedkin, Benjamin	*Chicago*
Goldsmith, Bernard Ellis	*Chicago*
Gomberg, David	*Chicago*
Green, Clifford Eugene	*Michigan City, Indiana*
Greenfield, Alec	*Chicago*
Gresens, Harold Franz	*Forest Park*
Grodsky, Nathan Maurice	*Chicago*
Hammond, Roderick Clyde	*Chicago*
Hawkins, Smith	*St. Louis, Missouri*
Heisler, Max	*Chicago*
Ho, Thomas Junshee	*Chicago*
Hoos, Kenmore	*Chicago*
Hrdina, Joseph Louis	*Cicero*
Hurt, Erwin Miles	*Cicero*
James, Rode Madison	*Salem*
Johnson, Albert Alfred	*Chicago*
Johnson, Fred William	*Carbondale*
Jozapaitis, Josephine	*Chicago*
Kaplan, Morris	*Chicago*
Kharasch, Nathan Selig	*Chicago*
Kirch, Ernst Rudolf	*Chicago*
Kloboucnik, Harold Thomas	*Cicero*
Knight, William Orlo	*Chicago*
Koblich, Frank John	*Chicago*

Krizan, Roy William	*Oak Park*
Kurkov, Aaron Norman	*Chicago*
Lambesis, Peter George	*Chicago*
Leszczynski, Felix Walter	*Chicago*
Levin, Leonard	*Chicago*
Levy, Carl	*Chicago*
Lieberman, Julius	*Chicago*
Lieberman, Milton David	*Chicago*
Mason, Howard Gordon	*Libertyville*
Mehlman, Joseph David	*Chicago*
Mensching, William Charles	*Chicago*
Minarsini, John Martin	*Chicago*
Mintz, Arnold William	*Chicago*
Mintz, Gilbert	*Chicago*
Mundo, Julia	*Hammond, Indiana*
Newman, William A.	*Chicago*
Olenec, Michael	*Chicago*
Patashnik, Herbert	*Chicago*
Pearce, James Willard	*Chillicothe*
Pedersen, Jens	*Champaign*
Pellage, Rudolph R.	*Chicago*
Pollack, Albert Hyman	*Chicago*
Pompa, James P.	*Aurora*
Posner, Sam	*Chicago*
Pulsucki, Ivan	*Chicago*
Ray, Marcus Hannan	*Chicago*
Riendeau, George A., Jr.	*Maywood*
Ruzicka, Edmund James	*Oak Park*
Sass, Henry Arthur	*Chicago*
Sawyer, Franklin Meister	*Oak Park*
Scharringhausen, George Louis, Jr.	*Park Ridge*
Schiller, Herbert A.	*Chicago*
Schreiber, Sam Louis	*Chicago*
Schuster, Irving	*Chicago*
Shinnick, Harold Joseph	*Chicago*
Simon, Isidore	*Chicago*
Skor, Simon	*Chicago*
Slais, Joseph A.	*Chicago*
Slavik, Gary	*Chicago*
Slutsky, Herman M.	*Chicago*
Smith, William Cuthbert	*Chicago*
Sobolewski, Edwin Francis	*Chicago*
Soderdahl, Paul	*Oak Park*
Sternberg, Abraham	*Chicago*
Sutker, Isadore Melvin	*Chicago*
Travis, Arthur Jerome	*Chicago*
Turk, Milton Glord	*Chicago*
Wisniewski, Thaddeus	*Chicago*
Zarobsky, George Arthur	*Cicero*

Certificates in Pharmacy

Cambio, Orlando D.	*Chicago*
Dunlop, Stuart George	*Chicago*
Edfors, Einar John	*Maywood*
Eisenstein, Harold	*Chicago*
Endler, Joseph	*Chicago*
Gelfand, Louis	*Chicago*
Gerbosi, William A.	*Chicago*
Hazel, Nadia Clementina	*Chicago*
Hecht, Fred	*Chicago*
Jacobson, Isadore	*Chicago*
Jastromb, Jacob	*Chicago*
Krebs, Robert McEvoy	*Mt. Carmel*
Podall, Alexander	*Chicago*
Shapiro, Herman	*Chicago*
Sievers, Manuel Udell	*Chicago*

Degree of Graduate in Pharmacy

William B. Maram	(Class of (1926)
Urban Oscar Oakdale	" " "
Howard I. Raff	" " "
Reuben M. Reifler	" " "
Benjamin Irving Schultz	" " "
George Yellen	(Class of 1924)

Honors

Arnold William Mintz
Gilbert Mintz
Harold Joseph Shinnick

PRIZES

The Scherer Pharmacy Prize	Lorenze Blough Eyer
The Mrazek Chemistry Prize	Gilbert Mintz
The Pedigo Materia Medica Prize	Harold Joseph Shinnick
The Hodel-Saltiel-Hodel Prize for General Scholarship	Arnold Mintz
The William Gray Prize for Dispensing	Nadia Clementina Hazel
The S. L. Antonow Prize	Nadia Clementina Hazel

The A.Ph.A. Membership Prize:

In Pharmacy	Donald William Drake
In Chemistry	Ernst R. P. Kirch
In Materia Medica	George A. Riendeau, Jr.

LIST OF STUDENTS 1927-1928

Course for Pharmaceutical Chemist

Freshmen

Abrams, Harold	*Chicago*
Adamson, Raymond Sigfrid	*Chicago*
Adler, Alice Wanda	*Chicago*
Alexander, Henry	*Chicago*
Allen, Arthur Noel	*Decatur*
Allen, John W.	*Elmhurst*
Allen, Lyle Edward	*Nashville*
Anderson, William	*Three Lakes, Wisconsin*
Applebaum, Jacob	*Chicago*
Arnold, Celia	*Chicago*
Astrinsky, Seymour	*Chicago*
Baginski, Anthony Joseph	*Chicago*
Balchofsky, Milton	*Chicago*
Balek, William C.	*Chicago*
Barcheski, Clement John	*Chicago*
Bard, Max	*Chicago*
Barone, Anthony Joseph	*Chicago*
Bass, George Mabry, Jr.	*Olney*
Bell, Philip	*Chicago*
Berman, Emanuel	*Chicago*
Bernstein, Irwin	*Chicago*
Blender, William	*Chicago*
Blier, Samuel Bernard	*Chicago*
Block, Leo	*Chicago*
Boljesik, George William	*Chicago*
Bonick, John Joseph	*Chicago Heights*
Bonk, Arthur Clarence	*Pekin*
Bloom, Irving	*Chicago*
Bouzek, Charles R.	*Chicago*
Bowers, LeRoy J.	*Waukegan*
Broderich, James Michael	*Chicago*
Brody, Bernard Benjamin	*Chicago*
Broom, Henry David	*Effingham*
Brotherton, Francis William	*Bloomington*
Brogdon, Ralph	*St. John*
Bruch, Gerston	*Chicago*
Budny, Jerome	*Chicago*
Burda, Bessie Filomena	*Chicago*
Burns, Clarence W.	*Elgin*
Brunstein, Jacob	*Chicago*
Carroll, James Leo	*Peoria*
Carpenter, Ralph Allen	*Mt. Vernon*
Carter, Joseph Henry	*Monmouth*

Cash, Richard Lyndhurst	*Chicago*
Cerny, Charles	*Chicago*
Cervak, George Norbert	*Chicago*
Chasin, Louis	*Chicago*
Chelovich, Vaso	*Chicago*
Chesta, John, Jr.	*Chicago*
Cihocki, John E.	*Chicago*
Cisar, George D.	*Chicago*
Cohen, Irving Edward	*Chicago*
Cohen, Samuel	*Chicago*
Collins, John Geers	*Triplett, Missouri*
Collins, William R.	*Chicago*
Corson, Harold Reid	*Genoa*
Cotler, Solomon	*Chicago*
Czaja, Walter Joseph	*Chicago*
Darnell, Hubert Melvin	*Peoria*
Davidson, Sam M.	*Chicago*
DeStefano, Emilio	*Chicago*
Dobin, Raymond Alfred	*Chicago*
Donarski, Clement Edward	*Chicago*
Doyle, Joseph	*Chicago*
Dragel, Daniel	*Chicago*
Drechsler, Henry Christian	*Chicago*
Driss, Milton Stuart	*Chicago*
Dunski, Joseph	*Chicago*
Duzansky, William	*Chicago*
Ehrhart, Roger Urban	*Chicago*
Eisen, Jack E.	*Chicago*
Engwall, Thor Theodore	*Chicago*
Enright, Maurice Gregory	*Chicago*
Epstein, Martin	*Chicago*
Everoad, Vernon Henry	*Mackinaw*
Faigle, Ernest Theodore	*Chicago*
Fair, Fay Ray	*Chicago*
Fay, Lloyd Joseph	*Watseka*
Fenton, Walter F.	*Forest Park*
Fetherston, Franklin James	*Chicago*
Fildes, John William	*Chicago*
Finkel, Abraham David	*Chicago*
Finkelberg, Norman	*Chicago*
Finkelstein, Robert	*Chicago*
Finn, Francis	*Amboy*
Fisher, Sidney	*Chicago*
Franklin, Joseph	*Chicago*
Franklin, Sidney A.	*Chicago*
Fremel, Edward Peter	*Chicago*
Friedman, Abe	*Chicago*
Fullerton, James C.	*Chicago*
Gaberman, Louis	*Chicago*
Gajkoski, Henry	*Chicago*

Gandell, Max	*Chicago*
Garmus, Stanley J.	*Cicero*
Gdalman, Louis	*Chicago*
Gentile, Joseph	*Blue Island*
Gershon, Solomon	*Chicago*
Ginsburg, Irving	*Chicago*
Giurato, James	*Chicago*
Goodchild, Joseph K.	*Chicago*
Goldberg, Barney	*Chicago*
Goldberg, Morton Ray	*Chicago*
Goldenson, Herman	*Chicago*
Gordon, Jack	*Chicago*
Gordon, Raymond Leon	*Chicago*
Gordon, Sidney M.	*Chicago*
Goslin, Alfred	*Streator*
Greenberg, Elizabeth	*Chicago*
Greenberg, Maurice	*Chicago*
Gruebling, William J.	*Chicago*
Guerino, Catherine Marie	*Chicago*
Hajicek, Bohumil	*Chicago*
Hampl, George	*Cicero*
Harrison, Samuel Leonard	*Chicago*
Hassen, Erwin	*Chicago*
Haynes, Kerdith K.	*Marseilles*
Heard, Mont	*Altamont*
Helfer, Lewis Michael	*Chicago*
Hoffen, Samuel A.	*Chicago*
Holstin, Marvel LeRoy	*Chicago*
Horn, Milton	*Chicago*
Horwitz, Harold	*Chicago*
Hurwitz, Allen	*Syracuse, New York*
Inhoff, Elbert H.	*Pecatonica*
James, Lee E.	*Watson*
Jesionowski, Chester	*Chicago*
Johnson, Howard Allen	*Geneva*
Jones, Paul Adolphus	*Frankfort, Kentucky*
Kadish, Kalman	*Chicago*
Kahn, Julius I.	*Chicago*
Kalman, Ben	*Chicago*
Kalom, Joseph	*Chicago*
Kanter, Maurice	*Chicago*
Kaplan, David	*Chicago*
Kaplovitz, Sol P.	*Chicago*
Kass, Jacob	*Chicago*
Katra, Adolph	*Chicago*
Kaveney, Francis Joseph	*Joliet*
Keating, Edward F.	*Chicago*
Kelch, Alfred Paul	*Decatur*
Kelley, Roy	*Magnolia, Arkansas*
Kelly, Robert E.	*Chicago*

Keltner, Robert Stephen	*Des Plaines*
King, George Melrose	*Chicago*
King, James Edward	*Joliet*
Kirkham, William Watt	*Waukegan*
Kliment, John, Jr.	*Cicero*
Kompare, Edward F.	*Chicago*
Korshak, Maurice	*Chicago*
Kowalski, Arnold	*Chicago*
Kramarczyk, Walter Andrew	*Chicago*
Krueger, Marvin Henry	*Forest Park*
Krusinski, Walter Anton	*Chicago*
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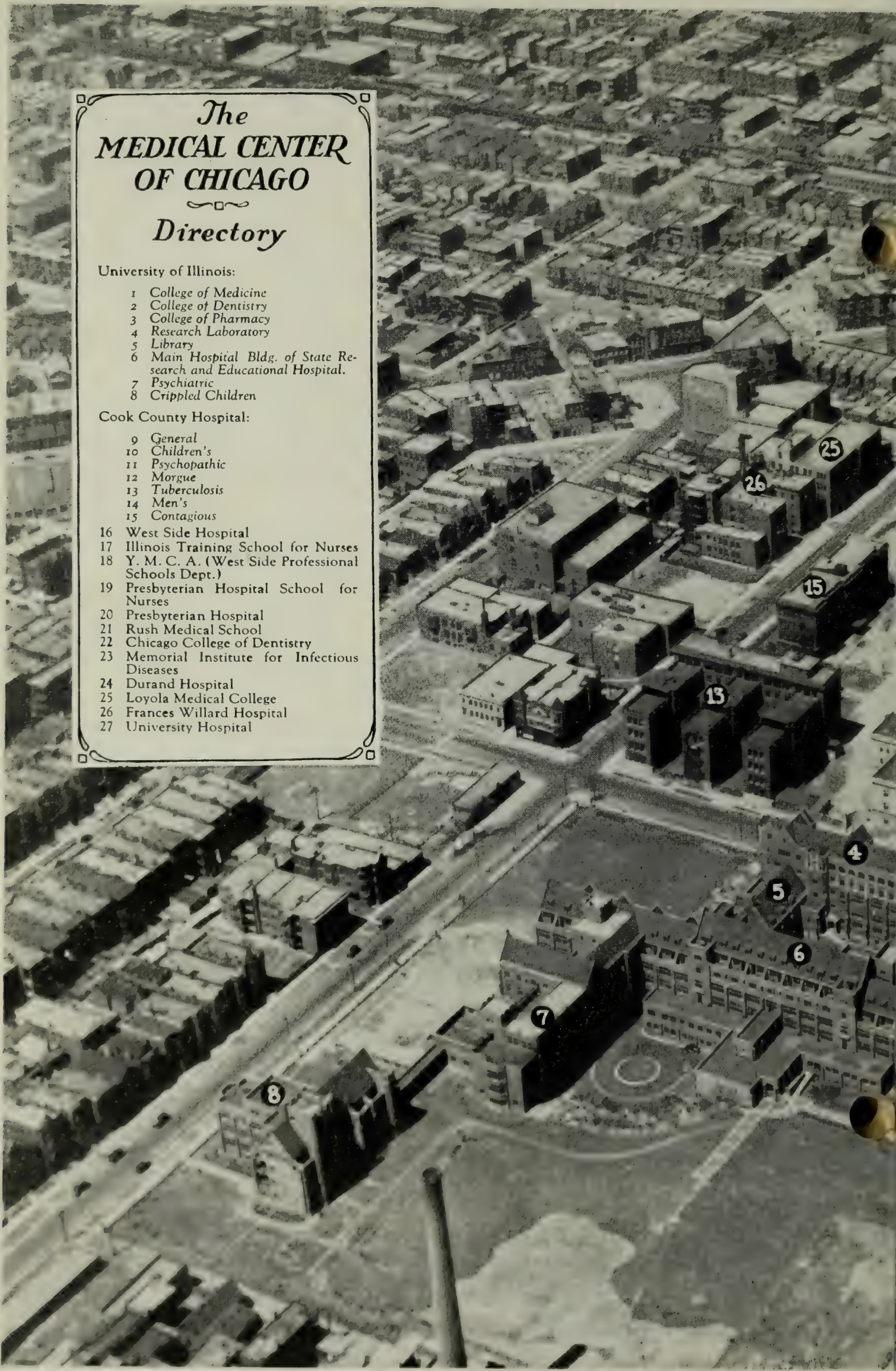

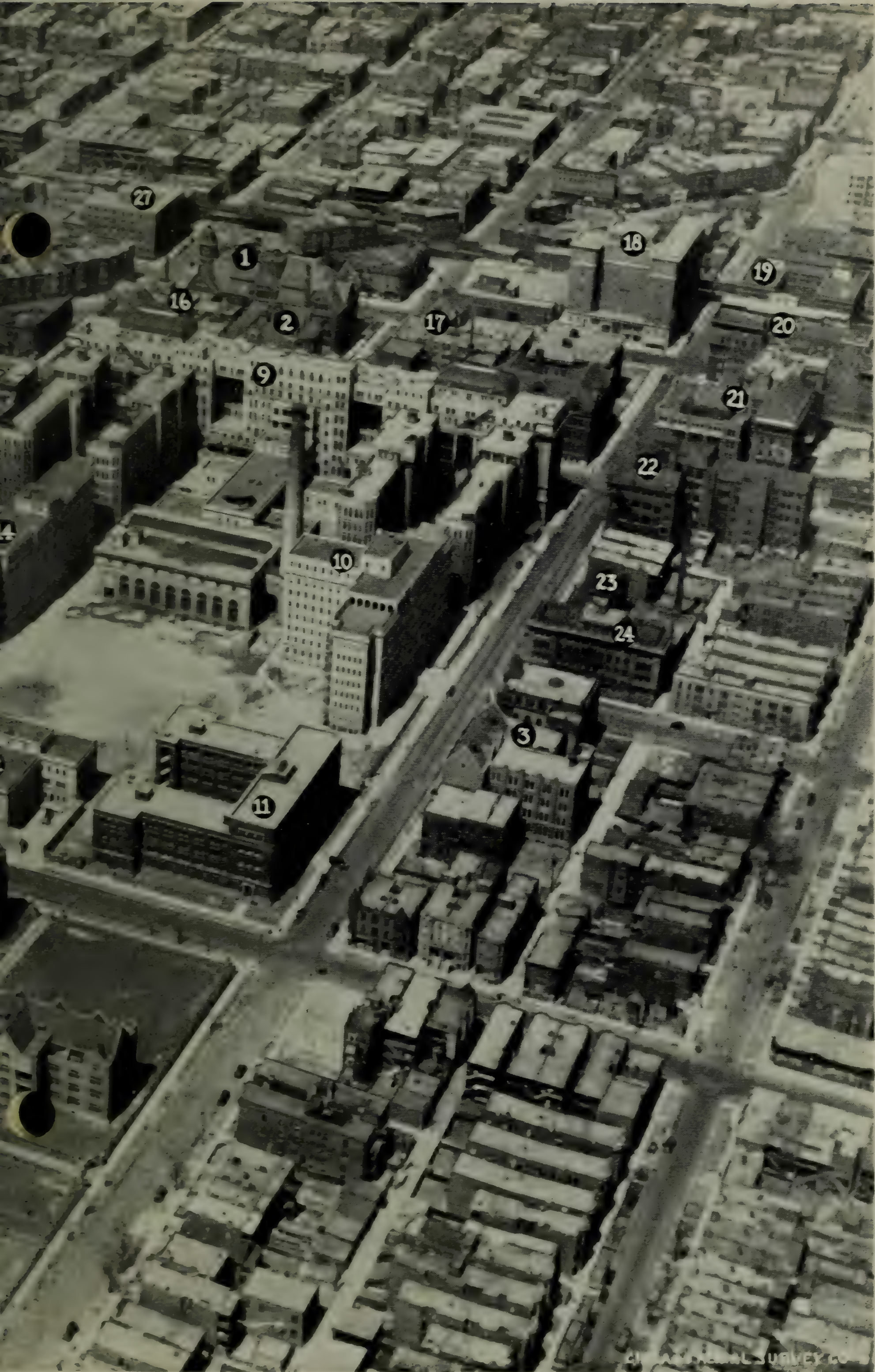

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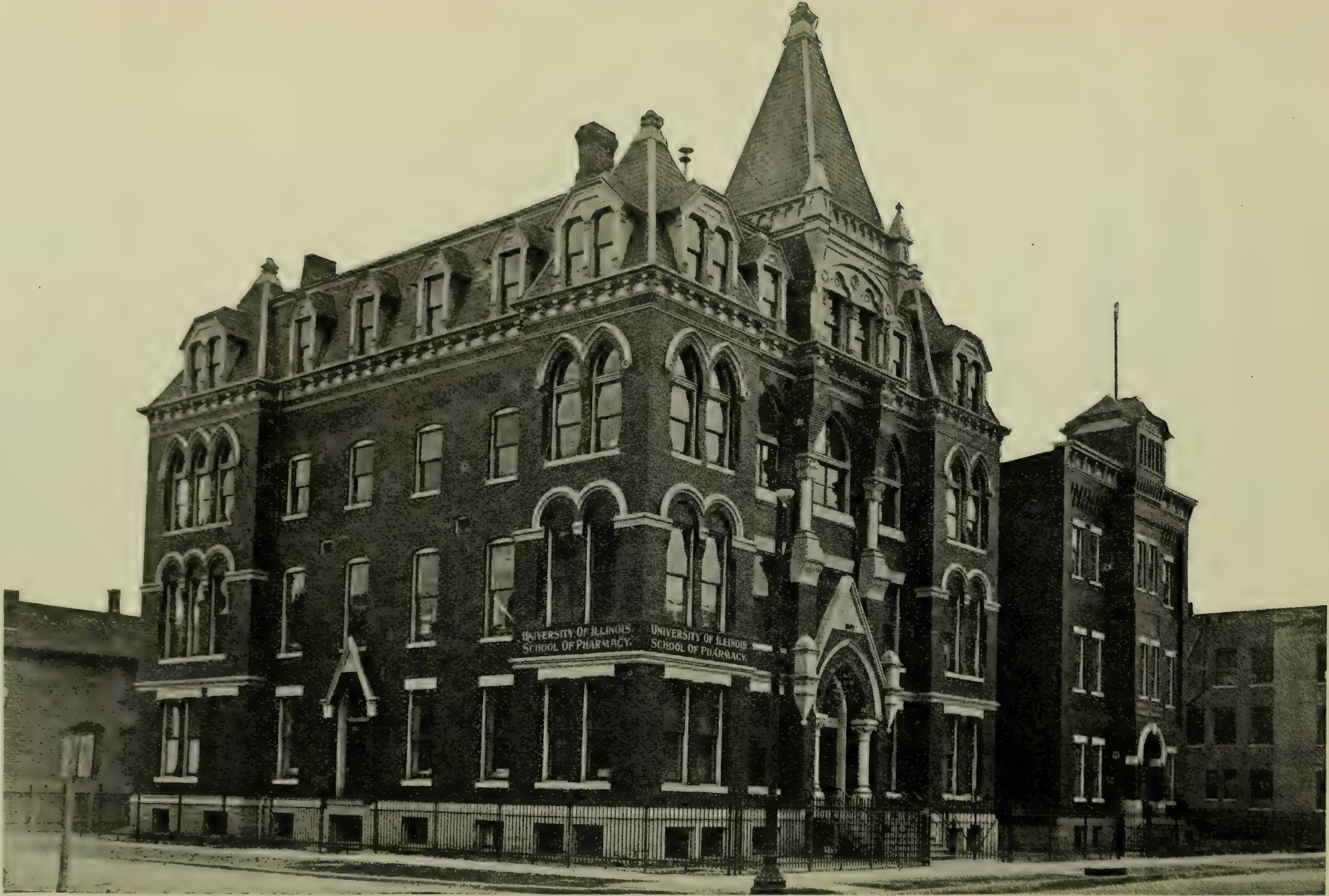
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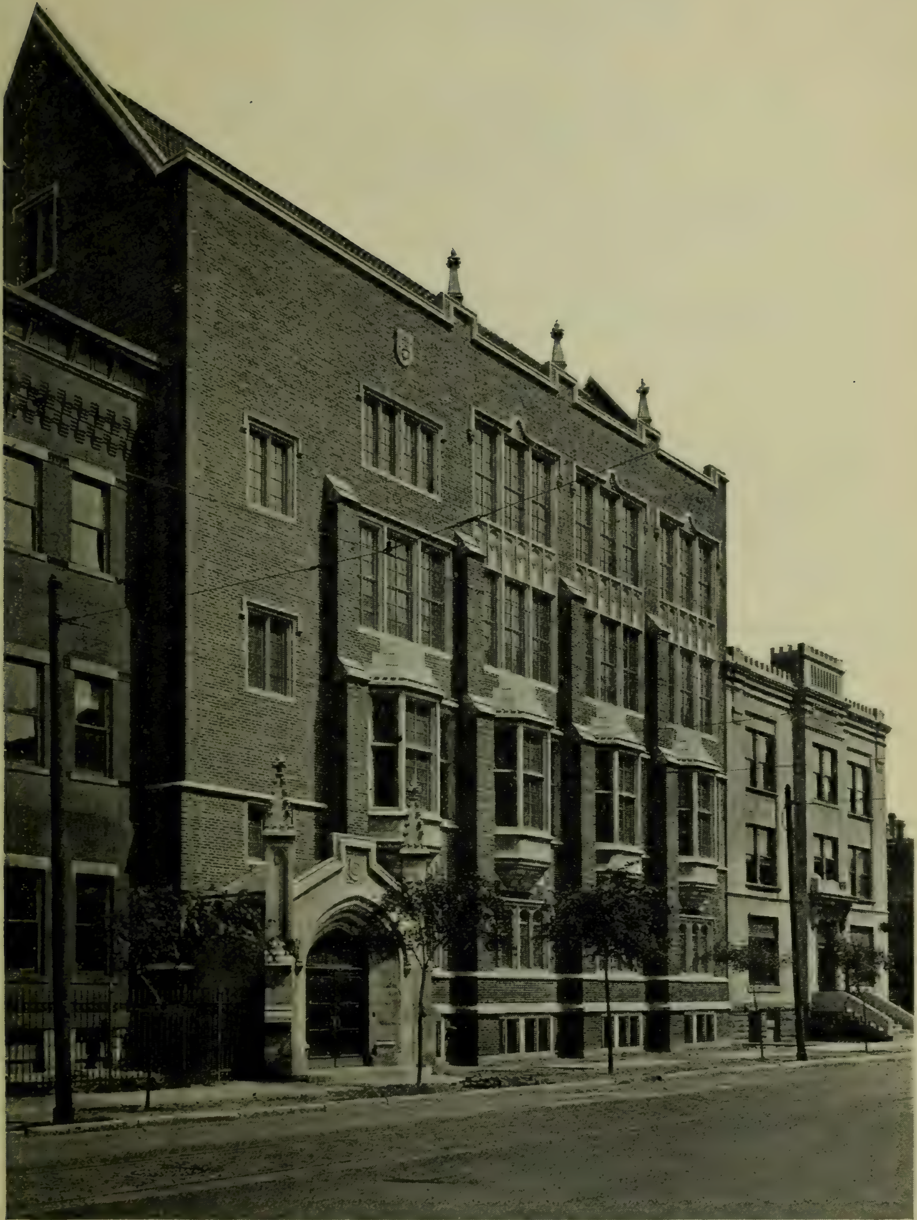

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Merle J. Trees . . . . . . *37 W. Van Buren Street, Chicago*

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OFFICERS OF ADMINISTRATION

1928-29

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University Committee

Committee on Discipline for the Chicago Professional Schools:
Dean Day, Dean Davis (*Chairman*), Dean Noyes, Secretary Browne (*Clerk*).

FACULTY—1928-1929

DAVID KINLEY, Ph. D., LL.D.
President of the University

WILLIAM BAKER DAY, Ph. G., Pharm. M.
Dean, Professor of Materia Medica and Botany

CLYDE MASON SNOW, Ph.G., A.M.
Professor of Pharmacy

ALBERT HENRY CLARK, Ph.G., B.S., M.S.
Professor of Chemistry

EDMUND NORRIS GATHERCOAL, Ph.G.
Professor of Pharmacognosy

HUGH LESLIE DAVIS, B.S., M.S., Ph.D.
Assistant Professor of Chemistry

ELMER HAUSER WIRTH, Ph.C., B.S., M.S.
Assistant Professor of Botany and Materia Medica

RALPH EUGENE TERRY, Ph.G., B.S., M.S.
Assistant Professor of Pharmacy

GEORGE LEWIS WEBSTER, Ph.G., B.S.
Associate in Chemistry

CHARLES WILDMAN CLARKE, B.S., M.S.
Associate in Chemistry

JAMES TOBIAS GROOT, B.S., M.D.
Lecturer in Physiology

SHERMAN WILLIAM MORRISON, Ph.C., B.S., M.S.
Instructor in Pharmacy

LEWIS ELBERT MARTIN, Ph.G.
Instructor in Pharmacy

HERBERT MARTIN EMIG, Ph.G., B.S.
Instructor in Pharmacy

SEWARD E. OWEN, Ph.C., Ph.G., B.S., M.S.
Instructor in Botany and Materia Medica

LEONARD DANA POWERS, B.S., M.S.
Instructor in Chemistry

JOHN AUGUST DORJAHN, Ph.G.
Assistant in Botany and Material Medica

JOSEPH CHARLES OCENASEK, Ph.G.
Assistant in Pharmacy

ESTHER MEYER, Ph.G.
Assistant in Botany and Materia Medica

REBECCA ROSENBLUM, Ph.G.
Assistant in Chemistry

MEYER BALIN, Ph.G., LL.B.
Assistant in Pharmacy

MARGARET CATHERINE GALLAGHER, Ph.C., B.S., M.S.
Assistant in Botany and Materia Medica

SAMUEL SHKOLNIK, Ph.G., LL.B.
Assistant in Pharmacy

REUBEN MAX REIFLER, Ph.G.
Assistant in Pharmacy

GILBERT MINTZ, Ph.C.
Assistant in Chemistry

ERNEST RUDOLF KIRCH, Ph.C.
Assistant in Chemistry

RAY ARTHUR PATELSKI, B.S.
Assistant in Chemistry

LAURENCE TEMPLETON, B.S.
Assistant in Pharmacy

GEORGE A. RIENDEAU, Jr., Ph.C.
Assistant in Botany and Materia Medica

LORENZ BLOUGH EYER, Ph.C.
Assistant in Botany and Materia Medica

VIVIAN JOSEPHINE STUCHLIK, Ph.G.
Assistant in Botany and Materia Medica

LEONARD LEVIN, Ph.C.
Assistant in Pharmacy

This School holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

CALENDAR

1929-30

FIRST SEMESTER

September 30, Monday, 8 a. m.-5 p. m.
Registration and payment of fees[1]

October 1, Tuesday, 9 a. m.
Instruction begun

November 27, Wednesday, 12 m.
Thanksgiving recess begun

December 2, Monday, 8 a. m.
Instruction resumed

December 21, Saturday, 5 p. m.
Holiday recess begun

January 6, 1929, Monday, 8 a. m.
Instruction resumed

January 27-31, Monday-Friday
Semester examinations

SECOND SEMESTER

February 3, Monday, 8 a. m.-5 p. m.
Registration and payment of fees

February 4, Tuesday, 9 a. m.
Semester instruction begun

April 17, Thursday, 5 p. m.
Easter recess begun

April 21, Monday, 9 a. m.
Instruction resumed

May 30, Friday
Memorial Day

May 26-May 29, Monday-Friday
Final examinations

June 5, Thursday
Alumni Meeting

June 7, Saturday
Commencement
Chicago Professional Schools of the University

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[1] Only students who have been matriculated may register. Matriculation of freshmen begins March 1st.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists nominated by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the school on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the school the building at 721 South Wood Street formerly occupied by the Institute for Juvenile Research.

LOCATION

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

The Lecture Rooms

There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

The Laboratories

Ten laboratories having a total capacity of 700 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. An equipment of machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

THE LIBRARY

The Library contains over five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

THE MUSEUM

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

THE STUDENTS' ROOMS

Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

LIBRARY

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. AGE

The applicant must be at least seventeen years of age.

2. NON-ILLINOIS STUDENTS

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.*, in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. HIGH-SCHOOL GRADUATION

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. PRESCRIBED SUBJECTS

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

LIST A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

5. ELECTIVES

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B	*Units*
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
English (4th unit)	1
Advanced algebra	½–1
Solid Geometry	½
Trigonometry	½
History[1]	1–4
Civics	½–1
Economics and economic history	½–1
Commercial geography	½–1
Physiography	½–1
Physiology	½–1
Zoology	½–1
Botany	½–1
Physics	1–2
Chemistry	1–2

6. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]	
Astronomy	½
Geology	½–1
Agriculture	1–3
Bookeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics)	½
Domestic science	1–3
Drawing, art and design	½–1
Drawing, mechanical	½–1
Manual training[3] or farm mechanics	1–2

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

General science	½–1
Foreign language (other than those of List B)	1–2
Music	1–2
Shorthand and typewriting (when offered together)	1–2
Typewriting (when offered alone in double periods)	1

How the Entrance Requirements May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.
2. From schools accredited by the North Central Association of Colleges and Secondary Schools.
3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From schools approved by the New England College Entrance Certificate Board.
6. From schools accredited by the Southern Association of Colleges and Secondary Schools.
7. From the state teachers' colleges of Illinois and other teachers' colleges having equal requirements for graduation.

High-School Credits by Examination

High-School credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.
2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.
3. In the examinations conducted in June of each year by the College Entrance Examination Board.
4. In the examinations conducted by the Regents of the University of the State of New York.

7. State Qualifying Certificate

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application. A fee of $1 must be paid to the State Department of Education and Registration for this certificate.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

THE DEGREE OF PHARMACEUTICAL CHEMIST

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

(The degree of Graduate in Pharmacy was discontinued with the school year 1925-1926.)

REQUIREMENT OF C IN THREE-FOURTHS OF WORK FOR THE DEGREE

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, Good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

The course comprises three years of thirty-two weeks each and leads the to degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Assistant Professor WIRTH,
Dr. GROOT, Mr. OWEN, Mr. DORJAHN, Miss MEYER, Miss GALLAGHER,
Miss STUCHLIK, MR. RIENDEAU, MR. EYER

FIRST YEAR

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor DAY, Professor GATHERCOAL, Miss GALLAGHER, Mr. RIENDEAU

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. GROOT.

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Professor GATHERCOAL, Mr. OWEN, Miss GALLAGHER, Mr. RIENDEAU

SECOND YEAR

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN.

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Assistant Professor Wirth, Mr. DORJAHN, Miss STUCHLIK.

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN.

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Assistant Professor WIRTH, Mr. DORJAHN, Miss STUCHLIK.

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.

Professor GATHERCOAL, Miss MEYER, Mr. OWEN, Mr. EYER

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and microchemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester. Mr. OWEN, Mr. RIENDEAU

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER, Mr. POWERS, Miss ROSENBLUM, Mr. PATELSKI, Mr. MINTZ, Mr. KIRCH

FIRST YEAR

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester. Assistant Professor DAVIS, Mr. PATELSKI, Mr. KIRCH

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.

Assistant Professor DAVIS, Mr. PATELSKI, Mr. KIRCH

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester. Assistant Professor DAVIS, Mr. PATELSKI

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U. S. P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. MINTZ

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Mr. MINTZ

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. MINTZ

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Mr. MINTZ.

THIRD YEAR

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester.

Professor CLARK.

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Mr. WEBSTER, Mr. POWERS.

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS.

PHARMACY

Professor SNOW, Assistant Professor TERRY, Mr. MARTIN,
Mr. MORRISON, Mr. EMIG, Mr. OCENASEK, Mr. SHKOLNIK,
Mr. BALIN, MR. REIFLER, Mr. TEMPLETON, Mr. LEVIN

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON.

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON.

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. Balin, Mr. Shkolnik, Mr. Reifler, Mr. Templeton

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Snow, Mr. Shkolnik, Mr. Balin Mr. Reifler, Mr. Templeton

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Professor Snow, Mr. Shkolnik, Mr. Balin, Mr. Reifler, Mr. Templeton

Second Year

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic,and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor Snow, Mr. Martin, Mr. Morrison, Mr. Ocenasek

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. Martin, Mr. Ocenasek

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Snow, Mr. Martin, Mr. Morrison, Mr. Ocenasek

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Mr. Martin, Mr. Ocenasek

Third Year

10. *Operative Pharmacy.*—3 lectures and recitations and 2 laboratory periods of 3 hours each week. (5 semester hours, 9 clock hours.) First semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Levin

11. *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor Terry, Mr. Emig, Mr. Levin

12 *Seminar.*—1 recitation each week. (1 semester hour, 1 clock hour.) Second semester.

Assistant Professor Terry, Mr. Emig, Mr. Levin

13. *Advanced Dispensing.*—3 lectures and recitations, 2 laboratory periods of 3 hours each week. (5 semester hours, 9 clock hours.) Second semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Levin

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years.

Mr. Morrison, Mr. Shkolnik

SUMMARY OF THE THREE-YEAR CURRICULUM

FIRST YEAR

First Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 1, 2 & 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Totals for the Semester	14	10	24	17

Second Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 4 & 5	4	3	7	5
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Totals for the Semester	12	13	25	16

SECOND YEAR

First Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 6 & 7	4	6	10	6
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Totals for the Semester	13	19	32	19

Second Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 8 & 9	4	6	10	6
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Totals for the Semester	13	19	32	19

THIRD YEAR

First Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Totals for the Semester	10	23	33	17

Second Semester

	Clock hours Lec. & Rec.	Clock hours Laboratory	Total clock hours	Total semester hours
Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Dispensary	..	3	3	1
Totals for the Semester	8	23	31	15

Total Semester hours in 3 years..103

Average number of clock hours a week a semester........................ 29

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Association of Colleges of Pharmacy. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

WOMAN'S LOAN FUND

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund. With accumulated interest the total amount in the fund is $605.34. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a freshman student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo. L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

MATERIA MEDICA PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who, in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1].......	$10.00	....	....	....	....	....
Tuition.............	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]......	15.00	15.00	20.00	20.00	20.00	20.00
Laboratory deposit[2]..	15.00	....	15.00	....	25.00	....
Diploma............	....	....	....	....	....	10.00
	$90.00	$65.00	$85.00	$70.00	$95.00	$80.00

NON-ILLINOIS STUDENTS

Non-Illinois Students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories The laboratory deposit covers breakage or damage to apparatus furnished by the School. From this deposit will be deducted the charges for apparatus broken, missing, or not returnable, also a locker fee of $1 if the student uses a locker in the coatroom.

[3] Each student is entitled to one transcript of record ,without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

LISTENER'S FEES—Persons not connected with the University who attend classes as listeners, pay for each course, each semester, $7.50.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Exceptions to this rule will be made only with the approval of the proper administrative officer. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together is from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary.

The new ten-story Y. M. C. A. building, located just two blocks north of the school, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

CHICAGO BRANCH OF THE A. PH. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

STATE REGISTRATION

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

The Dean
715 South Wood St., Chicago, Ill.

Schedule 1928-29 FRESHMAN YEAR First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9–10 a. m. Arithmetic Recitation Section 2-R-142 Section 3-R-213 Section 4-R-141	9–10 a. m. Arithmetic Recitation Section 1-R-334 Section 2-R-142	9–10 a. m. Arithmetic Recitation Section 1-R-334 Botany Recitation Section 3-R-213 Section 4-R-141	9–10 a. m. Arithmetic Recitation Section 3-R-213 Section 4-R-141	9–10 a. m. Pharmacy Recitation Section 1-R-334 Section 2-R-142 Chemistry Recitation Section 3-R-213 Section 4-R-141
10–11 a. m. Pharmacy Lecture R-413	10–11 a. m. Chemistry Recitation Section 1-R-334 Section 2-R-142	10–11 a. m. Pharmacy Lecture R-413	10–11 a. m. Pharmacy Recitation Section 3-R-213 Section 4-R-141 Botany Recitation Section 1-R-334 Section 2-R-142	10–11 a. m. Arithmetic Recitation Section 1-R-334 Section 2-R-142 Section 3-R-203 Section 4-R-141
11 a. m.–12 m. Botany Lecture R-413	11 a. m.–12 m. Chemistry Lecture R-340	11 a. m.–12 m. Botany Lecture R-413	11 a. m.–12 m. Chemistry Lecture R-340	11 a. m.–12 m. Chemistry Lecture R-340
1–5 p. m. Chemistry Laboratory Section 1 R-331	1–5 p. m. Chemistry Laboratory Section 3 R-331	1–5 p. m. Chemistry Laboratory Section 2 R-331	1–5 p. m. Chemistry Laboratory Section 4 R-331	1–5 p. m. Reserved for Examinations
1–2 p. m. Pharmacy Recitation Section 2 R-120	1–2 p. m. Pharmacy Recitation Section 1 R-120	1–2 p. m. Pharmacy Recitation Section 4 R-120	1–2 p. m. Pharmacy Recitation Section 3 R-120	
2-5 p. m. Pharmacy Laboratory Section 2 R-120	2-5 p. m. Pharmacy Laboratory Section 1 R-120	2-5 p. m. Pharmacy Laboratory Section 4 R-120	2-5 p. m. Pharmacy Laboratory Section 3 R-120	
1–4 p. m. Botany Laboratory Section 3 R-432	1–4 p. m. Botany Laboratory Section 4 R-432	1–4 p. m. Botany Laboratory Section 1 R-432	1–4 p. m. Botany Laboratory Section 2 R-432	

Schedule 1928-29 JUNIOR YEAR First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Pharmacy 6 Recitation Section 3-R-334	9-10 a. m. Chemistry 6 Recitation Section 2-R-141 Section 3-R-213	9-10 a. m. Chemistry 6 Recitation Section 1-R-142	9-10 a. m. Materia Medica Recitation Section 3-R-142	
				9 a. m.-12 m. Pharmacognosy Laboratory Section 2 Room 113 Chemistry 5 Laboratory Section 1 Room 220 Pharmacy 7 Laboratory Section 3 Room 231
10-11 a. m. Chemistry 6 Lecture Room 340	10-11 a. m. Pharmacy 6 Lecture Room 413	10-11 a. m. Pharmacy 6 Recitation Section 1-R-142 Section 2-R-141	10-11 a. m. Pharmacy 6 Lecture Room 413	
11 a. m.-12 m. Materia Medica Recitation Section 1-R-141 Section 2-R-142	11 a. m.-12 m. Materia Medica Lecture R-413	11 a. m.-12 m. Chemistry 6 Lecture Room 340	11 a. m.-12 m. Materia Medica Lecture Room 413	
1-2 p. m. Pharmacognosy Recitation Section 1-R-213 Pharmacy 7 Recitation Section 2-R-142	1-2 p. m. Chemistry 5 Lecture Room 340	1-2 p. m. Pharmacognosy Recitation Section 2-R-213 1-2 p. m. Pharmacy 7 Recitation Section 3-R-142	1-2 p. m. Chemistry 5 Lecture Room 340	1-2 p. m. Pharmacy 7 Recitation Section 1 Room 142 Pharmacognosy Recitation Section 3 Room 213
1-5 p. m. Chemistry 5 Laboratory Section 3-R-320		1-5 p. m. Chemistry 5 Laboratory Section 1-R-220		1-5 p. m. Chemistry 5 Laboratory Section 2 Room 220
2-5 p. m. Pharmacognosy Laboratory Section 1-R-113 Pharmacy 7 Laboratory Section 2-R-231	2-5 p. m. Pharmacy 7 Laboratory Section 1 Room 231 Chemistry 5 Laboratory Section 2 Room 220 Pharmacognosy Laboratory Section 3-R-113	2-5 p. m. Pharmacognosy Laboratory Section 2-R-113 Pharmacy 7 Laboratory Section 3-R-231	2-5 p. m. Chemistry 5 Laboratory Section 3-R-320 Pharmacy 7 Laboratory Section 2-R-231 Pharmacognosy Laboratory Section 1-R-113	2-5 p. m. Pharmacy 7 Laboratory Section 1 Room 231 Pharmacognosy Laboratory Section 3 Room 213

Schedule 1928-29 **SENIOR YEAR** **First Semester**

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 a. m.-12 m. Chemistry 10 Laboratory Section 1-R-431		8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431	8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		
				9-10 a. m. Pharmacy Seminar Room 413	
9 a. m.-12 m. Bacteriology Laboratory Section 2-R-215 Pharmacy Laboratory Section 3-R-131	9 a. m.-12 m. Pharmacognosy Laboratory Section 3-R-113 Bacteriology Laboratory Section 1-R-215	9 a. m.-12 m. Pharmacy Laboratory Section 1-R-131	9 a. m.-12 m. Bacteriology Laboratory Section 1-R-215 Pharmacognosy Laboratory Section 3-R-113		9 a. m.-12 m. Bacteriology Laboratory Section 1-R-215
				10-11 a. m. Chemistry 9 Lecture Room 340	
	11 a. m.-12 m. Bacteriology Recitation Section 2-R-213			11 a. m.-12 m. Pharmacy Lecture Room 413	
	1-2 p. m. Pharmacy Lecture Room 413	1-2 p. m. Bacteriology Recitation Section 1-R-141	1-2 p. m. Bacteriology Lecture Sections 1 & 2 Room 413	1-2 p. m. Bacteriology Lecture Sections 1 & 2 Room 413	
1-2 p. m. Pharmacy Recitation Section 2-R-142		1-2 p. m. Pharmacy Recitation Section 3-R-142			
2-5 p. m. Pharmacy Laboratory Section 2-R-131		2-5 p. m. Pharmacy Laboratory Section 3-R-131 Bacteriology Laboratory Section 2-R-215			
1-5 p. m. Chemistry 10 Laboratory Section 1-R-431		2-3 p. m. Pharmacy Recitation Section 1-R-142	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	
	2-3 p. m. Chemistry 10 Lecture Room 340				
			2-5 p. m. Pharmacy Laboratory Section 2-R-131	2-5 p. m. Pharmacy Laboratory Section 1-R-131 Bacteriology Laboratory Section 2-R-215	
	3-4 p. m. Chemistry 9 Lecture Room 340				

DEGREES, 1929

Degree of Pharmaceutical Chemist

(Conferred February 1929)

Herbert Albert Berry	*Chicago*	
George Louis Ciha	*Chicago*	
Howard J. Ermeling	*Havana*	
Edwin John Foster	*Toluca*	
Libero Gardella	*Chicago*	
David Leon Goldstein	*Chicago*	
Louis Goodman	*Chicago*	
Arthur Maltz	*Chicago*	
Louis L. Plotnich	*Chicago*	
Max Reisler	*Chicago*	
Samuel W. Ripstein	*Chicago*	
Louis H. Rickelman	*Effingham*	
David Rothberg	*Chicago*	
George Lee Rumbaugh	*Chicago*	
Harriet Leonora Skinder	*Chicago*	
Joseph George Slavik	*Chicago*	
Lorenz Laurentine Smith	*Chicago*	
Orlando D. Cambio	*Chicago*	(Class of 1928)
Stuart George Dunlop	*Chicago*	“ “ “
Einar J. Edfors	*Maywood*	“ “ “
Joseph Endler	*Chicago*	“ “ “
Louis Gelfand	*Chicago*	“ “ “
Nadia Clementina Hazel	*Chicago*	“ “ “
Fred Hecht	*Chicago*	“ “ “
Isadore Jacobson	*Chicago*	“ “ “
Robert McEvoy Krebs	*Mt. Carmel*	“ “ “
Alexander Podall	*Chicago*	“ “ “
Herman Shapiro	*Chicago*	“ “ “
Manuel Udell Sievers	*Chicago*	“ “ “

(Conferred June 1929)

Sidney Adelman	*Chicago*
Max Akwa	*Chicago*
Samuel Robert Aronson	*Chicago*
Gerald Wilson Baldridge	*Macomb*
Sam H. Balkin	*Chicago*
Philip A. Barber	*Chicago*
Victor John Bardonski	*Chicago*
Otto Bark	*Chicago*
Truman Alonzo Barlow	*Walshville*
Stanley Frank Bartecki	*Chicago*
Ruben E. Beckman	*Chicago*
Theodore Lloyd Bednarchuk	*Chicago*
John Bernbrock, Jr.	*Quincy*
Fred R. Berscheid	*Aurora*

John Biederman	*Chicago*
Martin Peter Blaszak	*Cicero*
Leo Bleicher	*Chicago*
Adolph Borchers	*Chicago*
Charles Leslie Bordner	*Lewistown*
Ward Ellis Bost	*Hillsboro*
Leslie Wright Browne	*Watseka*
Benjamin Frederick Cauble	*Mt. Greenwood*
Robert Gerald Center	*DuQuoin*
Charles George Cohen	*Chicago*
Victor Allen Cole	*Chicago*
John Anthony DeSaegher	*Chicago*
Saul M. Epstein	*Chicago*
Elmer Thomas Fritsch	*Chicago*
Ellis Israel Gans	*Chicago*
Edward H. Gholson	*Dixon*
Raphael A. Goetzman	*Shawneetown*
Lawrence A. Goslin	*Streator*
Joseph C. Gumulauskas	*Chicago*
David William George Haering	*Chicago*
Philip W. Harding	*Auburn, Indiana*
Milton Harris	*Stambaugh, Michigan*
Reed Garrett Henninger	*Rushville*
Emil Ruben Hirsch	*Tripp, S. Dakota*
Joseph Cameron Hooper	*Chicago*
Vernon Hoos	*Chicago*
Morris Victor Horner	*Chicago*
Esther Lois Jones	*Chicago*
Gordon Eugene Johnson	*Paxton*
Meyer Kaplan	*Chicago*
Nathan A. Kaplan	*Chicago*
Mabel Lucille Kettering	*Chicago*
Bernard P. Klawans	*Chicago*
Stanley Frank Kopecky	*Oak Park*
Gerald Kozlov	*Chicago*
Harry J. Krasneski	*Erie, Pa.*
Otto Louis Kresnicka	*Cicero*
Joseph LaManna	*Chicago*
George Ben Lande	*Chicago*
Salvatore Frank LaRocca	*Chicago*
Mandel Harry Levin	*Chicago*
George Fred Lovewell	*Chicago*
Edward S. Lubar	*Chicago*
William Lubar	*Chicago*
William Robert McCrotty	*Springfield*
Albert Charles Margolis	*Chicago*
Calman Mark	*Chicago*
Lawrence Martorano	*Chicago*
Charles Joseph Mattas	*Cicero*

Michael Medintz	*Chicago*
Charles F. Merdian	*Henry*
Philip William Nieman	*Oak Park*
Louis David Nierenberg	*Chicago*
William Andrew Paludnevich	*Chicago*
Nicolas Panzica	*Chicago*
Hyman Peckerman	*Chicago*
Joseph Perlman	*Chicago*
Henry Bohumil Pesata	*Oak Park*
Peter B. Pinna	*Chicago*
Antonio Maceo Porter	*Chicago*
Alfred Jacob Press	*Chicago*
Abraham Paul Price	*Chicago*
Irving Richter	*Chicago*
Maurice Ruttenberg	*Chicago*
Albert Sakofsky	*Chicago*
Ladislaus Frank Satala	*Chicago*
Carl Francis Schaede	*Kankakee*
Victor Hugo Scher	*Chicago*
Harry Schurr	*Chicago*
Herbert Schwab	*Chicago*
Harry Schwartz	*Chicago*
Raymond Erwin Seem	*Chicago*
Carl George Selmer	*Utica*
Maurice Charles Shoffman	*Chicago*
Anton Clark Sibilsky	*Laurium, Michigan*
George Fred Sieffert	*Utica*
Anthony Sodaro	*Chicago*
Raymond David Speakman	*Chicago*
Abner Sternberg	*Chicago*
Samuel Lloyd Stout	*Springfield*
Victor Benjamin Tanenbaum	*Chicago*
Emanuel Tikotsky	*Chicago*
Chester Elginer Tobias	*Chicago*
Carl Reinhard Trognitz	*Chicago*
Maurice Zaritsky	*Chicago*
Harold Eisenstein	*Chicago* (Class of 1928)
Jacob Jastromb	*Chicago* (Class of 1928)

Certificates in Pharmacy

Students who have completed the course for pharmaceutical chemist in the School of Pharmacy of the University of Illinois and who will be entitled to the degree upon attaining the age of twenty-one years.

Philip Wilens Becker	*Chicago*
Edith Di Gilio	*Chicago*
Frank Nick Di Gilio	*Chicago*
Joseph Edwin Faingold	*Chicago*
Samuel Florest	*Chicago*

Thorkild Nordby Hansen	*Chicago*
Morris Lang	*Chicago*
Sol E. Levinson	*Chicago*
Ernest Nachtman	*Berwyn*
Arthur Meyer Rosenthal	*Chicago*
Harold Alfred Vick	*Elgin*
Samuel Bell Winer	*Chicago*
Sam Worshill	*Chicago*

Honors and Prizes

High Honors

George Fred Seiffert

Honors

Joseph Faingold
Reed Garrett Henninger

PRIZES

Scherer Pharmacy Prize	Reed Garrett Henninger
Mrazek Chemistry Prize	Henry Bohumil Pesata
Pedigo Materia Medica Prize	Joseph Faingold
Hodel-Saltiel-Hodel Prize for General Scholarship	George Fred Seiffert
William Gray Prize for Dispensing	Charles L. Bordner
S. L. Antonow Prize	Edith Di Gilio

LIST OF STUDENTS 1928-1929

COURSE FOR PHARMACEUTICAL CHEMIST

FRESHMEN

Adamowicz, Boleslaus Edward	*Chicago*
Adderley, Verna Mae	*Chicago*
Albrecht, Obed William	*Belvidere*
Anderson, William	*Three Lakes, Wisconsin*
Argus, James Leon	*Chicago*
Babraj, Frank Joseph	*Chicago*
Baginski, Anthony Joseph	*Chicago*
Bahrij, Stanley Max	*Chicago*
Baker, Florence Marie	*Chicago*
Baker, Homer Uhl	*Morris*
Ballin, Norman Henry	*Chicago*
Bard, Max	*Chicago*
Barovsky, Carl	*Chicago*
Barrington, Walter T.	*Chicago*
Beeby, James Addison	*Chicago*
Belpedio, Carmen Jerome	*Chicago*
Benes, Edward	*Chicago*
Berg, Elmer Arthur	*Chicago*
Berkowitz, Esther Clara	*Chicago*
Berlin, Harry	*Chicago*
Bernardi, Charles Bernard	*Highwood*
Bernstein, Milton Chester	*Chicago*
Bernstein, Mitchel	*Chicago*
Beskin, Harry Sidney	*Chicago*
Biddle, George Gunther	*Chicago*
Bidzinski, Zenon Stanley	*Chicago*
Biedka, Marie Henrietta	*Chicago*
Bjorn, Sulo Thomas	*DeKalb*
Blanchette, Lorenzo Gerard	*Bourbonnais*
Blinstrup, Chester John	*Chicago*
Bona, Anna Catherine	*Chicago*
Bouzek, Charles Richard	*Chicago*
Brachtl, James	*Chicago*
Brandt, Stephen Raymond	*Chicago*
Bregenzer, Henry Amedee	*Kankakee*
Broderich, James Michael	*Chicago*
Brogdon, Ralph	*St. John*
Brooks, John Russell	*Chicago*
Brown, Vincent Philip	*Glen Ellyn*
Bruder, Vernon Edward	*Chicago*
Burkhart, Lyle Alfonso	*LaHarpe*
Buyer, Benjamin Leon	*Chicago*
Calabrese, Michael Dominic	*Chicago*

Calabrese, Rocco	*Chicago*
Campbell, John Clayton	*Dixon*
Carter, Joseph Henry	*Monmouth*
Carter, Royal Lincoln	*Downers Grove*
Catelani, Alfred	*Chicago*
Cervak, George Norbert	*Chicago*
Chaney, Roy	*Chicago*
Chiappe, Dominick John	*Chicago*
Chidensky, Charles B.	*Chicago*
Chidensky, Jacob	*Chicago*
Chladek, Edward Gordon	*Chicago*
Cinefro, John A.	*Chicago*
Citron, Morris	*Chicago*
Cline, J. M.	*Herrin*
Cohen, Ellen	*Chicago*
Coleman, Joseph L.	*Chicago*
Conley, James Peter	*Woodstock*
Cook, Thomas Donald	*Chicago*
Cribb, Helen Ione	*Antioch*
Cronin, John Edward	*Chicago*
Crowfoot, Elbert Francis	*Elgin*
Cunningham, Newton Miller	*Champaign*
Cunningham, William Lynn	*Lincoln*
Curtin, Thomas J.	*Chicago*
Cwiklinski, Marie Ann	*Chicago*
Czaja, Walter Joseph	*Chicago*
Davis, Ernest C.	*Pawnee*
Deitche, Joseph Martin	*Chicago*
DeStefano, Emilio	*Melrose Park*
DeTrana, Loretta	*Chicago*
Dietrich, Clarence Edward	*Crown Point, Indiana*
Dodge, William Lavern	*Carbondale*
Domm, Milton	*Ayton, Ontario*
Dragel, Daniel	*Chicago*
Drazek, Aloysius	*Chicago*
Drew, John Stanley	*Aurora*
Duleba, Joseph W.	*Chicago*
Dvorak, George J.	*Chicago*
Dworkin, Sidney	*Chicago*
Elder, Clyde James	*Chicago*
Engh, Herbert T.	*Chicago*
Enrietta, John, Jr.	*Coal City*
Epstein, Sam	*Chicago*
Ericson, Elmer Willard	*Moline*
Ewald, John J.	*Chicago*
Fair, Fay Ray	*Chicago*
Fawcett, Charles Theodore	*Chicago*
Fay, Lloyd Joseph	*Watseka*
Fenton, Walter F.	*Forest Park*
Filip, Joseph A.	*Cicero*

Firestone, Philip	*Chicago*
Fisher, Elmer	*Chicago*
Fogen, Meyer Harold	*Chicago*
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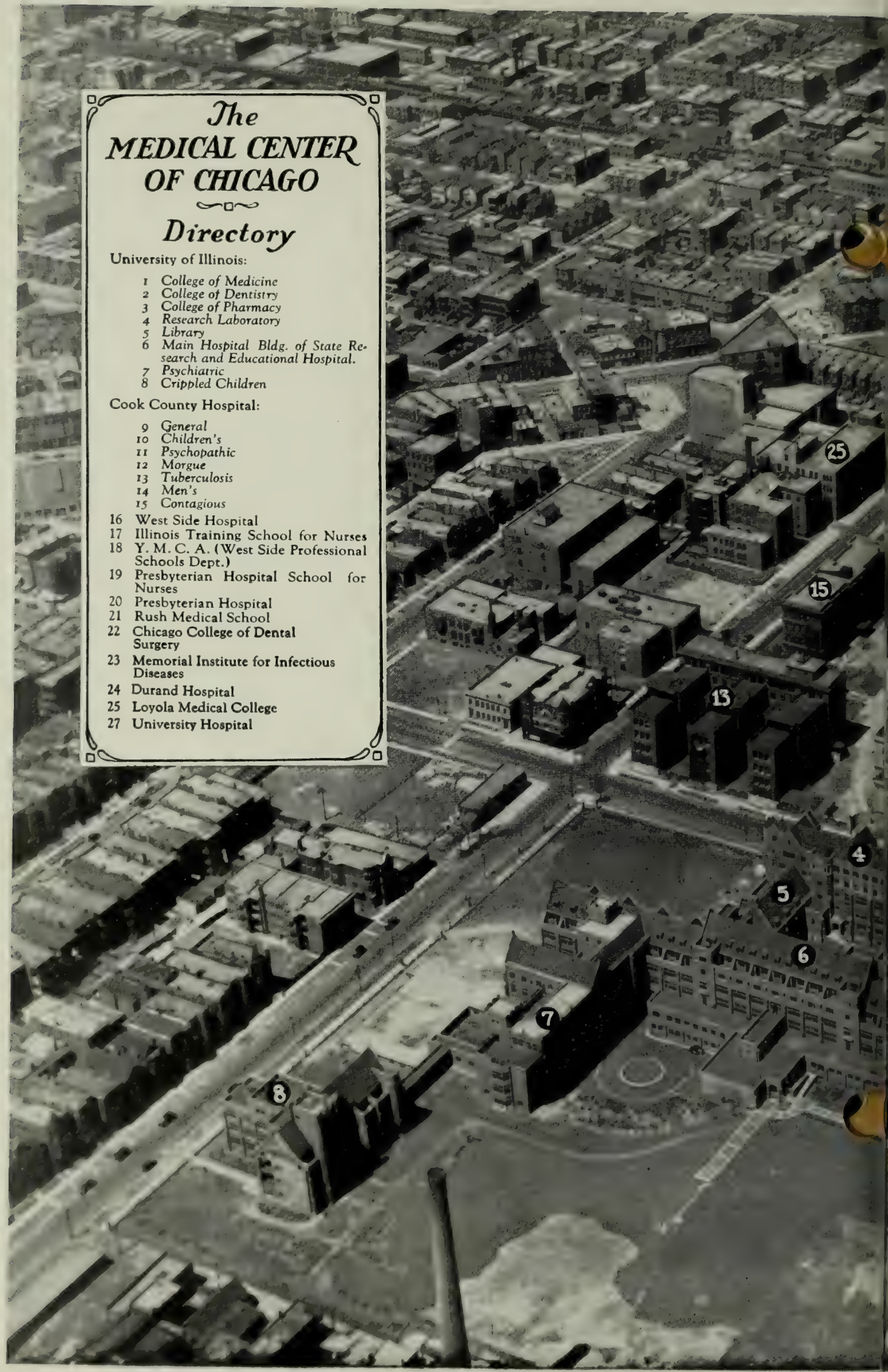


The MEDICAL CENTER OF CHICAGO

Directory

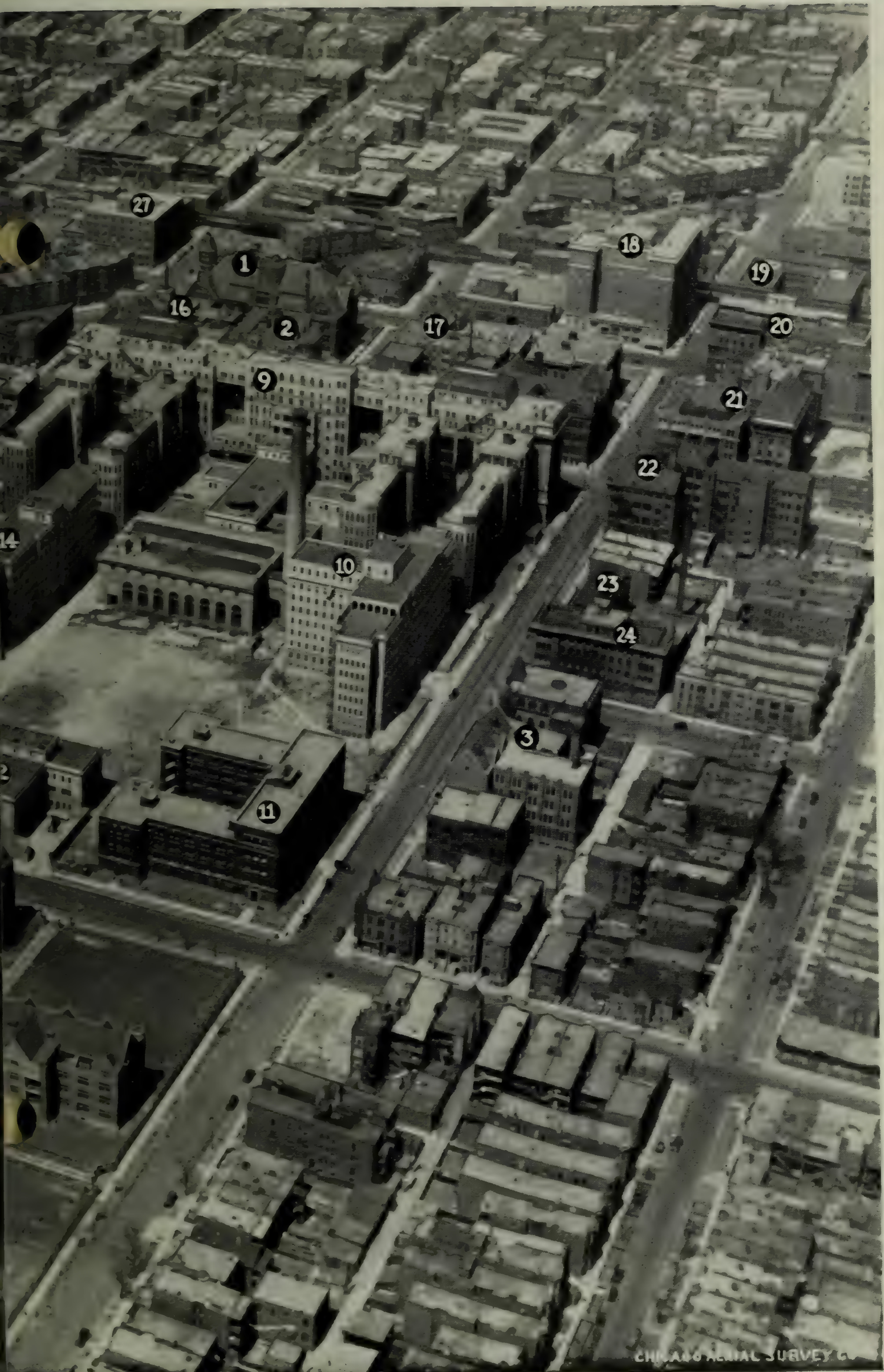
University of Illinois:

1 *College of Medicine*
2 *College of Dentistry*
3 *College of Pharmacy*
4 *Research Laboratory*
5 *Library*
6 *Main Hospital Bldg. of State Research and Educational Hospital.*
7 *Psychiatric*
8 *Crippled Children*

Cook County Hospital:

9 *General*
10 *Children's*
11 *Psychopathic*
12 *Morgue*
13 *Tuberculosis*
14 *Men's*
15 *Contagious*

16 West Side Hospital
17 Illinois Training School for Nurses
18 Y. M. C. A. (West Side Professional Schools Dept.)
19 Presbyterian Hospital School for Nurses
20 Presbyterian Hospital
21 Rush Medical School
22 Chicago College of Dental Surgery
23 Memorial Institute for Infectious Diseases
24 Durand Hospital
25 Loyola Medical College
27 University Hospital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CHICAGO AERIAL SURVEY C

Seventy-First Annual Announcement

UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY

(Chicago College of Pharmacy)

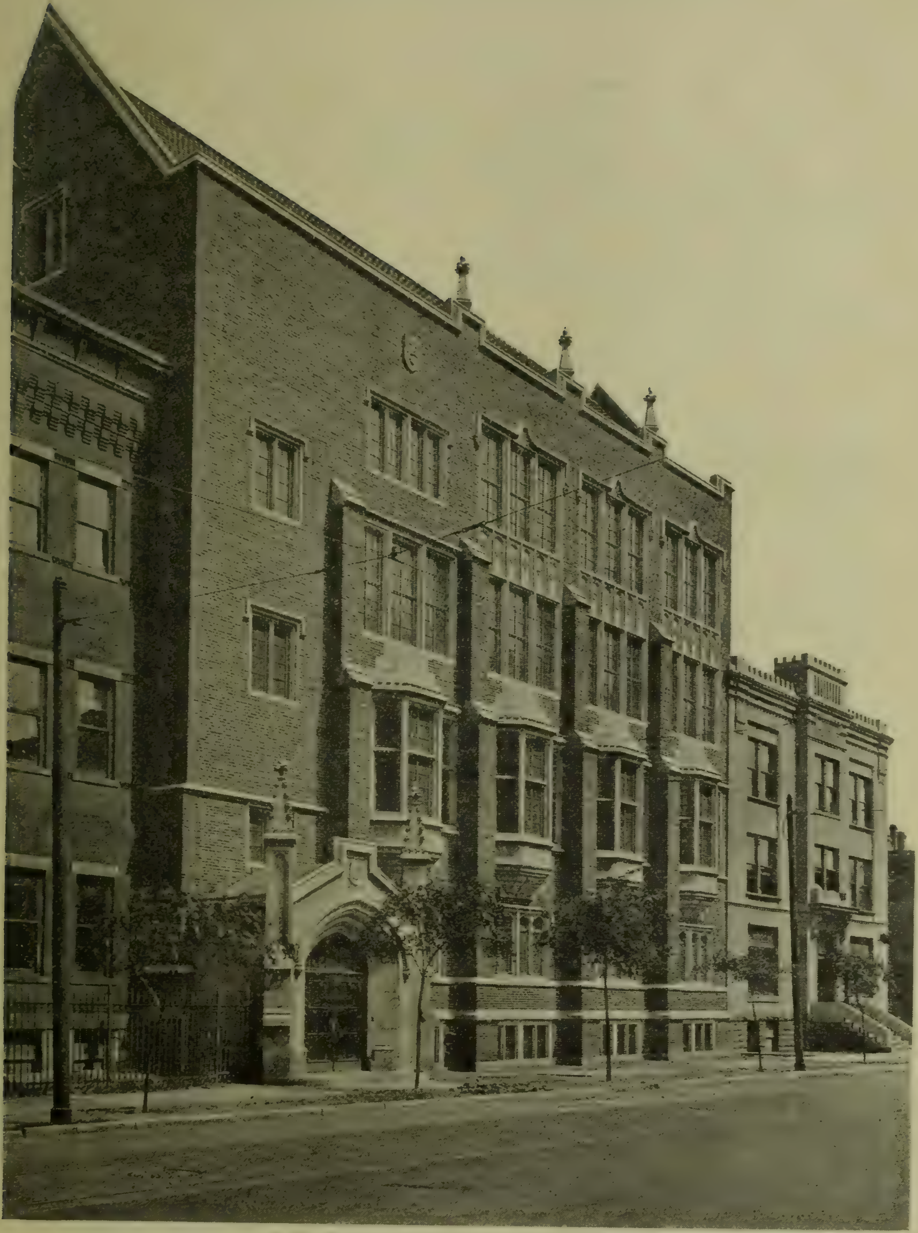
WOOD AND FLOURNOY STREETS
CHICAGO, ILLINOIS

REGISTER FOR 1929-30
SESSION OF 1930-31

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.
UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.

THE NORTH BUILDINGS



THE NEW BUILDING AND THE SOUTH BUILDING

THE BOARD OF TRUSTEES

Members Ex-Officio

The Governor of Illinois

Hon. Louis L. Emmerson	*Springfield*

The Superintendent of Public Instruction

Hon. Francis G. Blair	*Springfield*

Elected Members

(*Term 1925-1931*)

George A. Barr	*Joliet*
Walter T. Fisher	*134 So. LaSalle St., Chicago*
Frank H. Simpson	*Flora*

(*Term 1927-1933*)

Mrs. Laura B. Evans	*Taylorville*
Mrs. Helen M. Grigsby	*Pittsfield*
William L. Noble	*31 N. State St., Chicago*

(*Term 1929-1935*)

James W. Armstrong	*1822 30th Street, Rock Island*
Mrs. Mary E. Busey*	*Urbana*
Merle J. Trees	*37 W. Van Buren Street, Chicago*

Officers of the Board

George A. Barr, Joliet	*President*
Harrison E. Cunningham, Urbana	*Secretary*
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Walter T. Fisher
Merle J. Trees
William L. Noble, *Chairman*

Advisory Board to the School Pharmacy

J. F. Shreve, Jacksonville
John H. Harsch, Peoria
Leo L. Mrazek, Chicago
Fred W. Rauth, Springfield
Byron Armstrong, Jacksonville

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*Deceased, April 7, 1930.

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1930/31

OFFICERS OF ADMINISTRATION

1930-31

HARRY WOODBURN CHASE, Ph.D., LL.D., *President*

WILLIAM BAKER DAY, Ph.G., Pharm.M., *Dean*
GEORGE PHILIP TUTTLE, B.S., *Registrar*
LLOYD MOREY, A.B., B. Mus., C.P.A., *Comptroller*
WILLIAM H. BROWNE, *Secretary, College of Medicine and Business Manager of Chicago Departments*
MARY M. SCANLAN, *Secretary to the Dean*

UNIVERSITY COMMITTEE

COMMITTEE ON DISCIPLINE FOR THE CHICAGO PROFESSIONAL SCHOOLS:
DEAN DAY, DEAN DAVIS (*Chairman*), DEAN NOYES, Secretary BROWNE (*Clerk*).

FACULTY—1929-30

David Kinley, Ph.D., LL.D., *President of the University*

William Baker Day, Ph.G., Pharm.M., *Dean, Professor of Materia Medica and Botany.*

Clyde Mason Snow, Ph.G., A.M., *Professor of Pharmacy.*

Albert Henry Clark, Ph.G., B.S., M.S., *Professor of Chemistry.*

Edmund Norris Gathercoal, Ph.G., *Professor of Pharmacognosy.*

Hugh Leslie Davis, B.S., M.S., Ph.D., *Assistant Professor of Chemistry.*

Elmer Hauser Wirth, Ph.C., B.S., M.S., *Assistant Professor of Botany and Materia Medica.*

Ralph Eugene Terry, Ph.G., B.S., M.S., *Assistant Professor of Pharmacy.*

George Lewis Webster, Ph.G., B.S., *Associate in Chemistry.*

Charles Wildman Clarke, B.S., M.S., *Associate in Chemistry.*

James Tobias Groot, B.S., M.D., *Lecturer in Physiology.*

Sherman William Morrison, Ph.C., B.S., M.S., *Associate in Pharmacy.*

Lewis Elbert Martin, Ph.G., *Instructor in Pharmacy.*

Herbert Martin Emig, Ph.G., B.S., *Instructor in Pharmacy.*

Seward E. Owen, Ph.C., Ph.G., B.S., M.S., *Instructor in Botany and Materia Medica.*

Leonard Dana Powers, B.S., M.S., *Instructor in Chemistry.*

Samuel Shkolnik, Ph.G., LL.B., LL.M., *Instructor in Pharmacy.*

John August Dorjahn, Ph.G., *Assistant in Botany and Materia Medica.*

Joseph Charles Ocenasek, Ph.G., *Assistant in Pharmacy.*

Rebecca Rosenblum, Ph.G., *Assistant in Chemistry.*

Meyer Balin, Ph.G., LL.B., *Assistant in Pharmacy.*

Margaret Catherine Gallagher, Ph.C., B.S., M.S., *Assistant in Botany and Materia Medica.*

Reuben Max Reifler, Ph.G., *Assistant in Pharmacy.*

Gilbert Mintz, Ph.C., *Assistant in Chemistry.*

Ernst Rudolph Kirch, Ph.C., *Assistant in Chemistry.*

Laurence Templeton, B.S., *Assistant in Pharmacy.*

George A. Riendeau, Jr., Ph.C., *Assistant in Botany and Materia Medica.*

Lorenz Blough Eyer, Ph.C., *Assistant in Botany and Materia Medica.*

Vivian Josephine Stuchlik, Ph.G., *Assistant in Botany and Materia Medica.*

Leonard Levin, Ph.C., *Assistant in Pharmacy.*

Paul Gotfried Soderdahl, Ph.C., *Assistant in Chemistry.*

Marion Kasbeer, B.S., *Assistant in Chemistry.*

Paul David Carpenter, Ph.G., *Assistant in Botany and Materia Medica.*

This School holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

CALENDAR

1930-31

FIRST SEMESTER

October 6, Monday, 8 a. m.-5 p. m.
Registration and payment of fees[1]

October 7, Tuesday, 9 a. m.
Instruction begun

November 26, Wednesday, 12 m.
Thanksgiving recess begun

December 1, Monday, 8 a. m.
Instruction resumed

December 20, Saturday, 5 p. m.
Holiday recess begun

January 5, 1931, Monday, 8 a. m.
Instruction resumed

January 31 to February 3, Friday to Tuesday
Semester Examinations

SECOND SEMESTER

February 9, Monday, 8 a. m.-5 p. m.
Registration and payment of fees

February 10, Tuesday, 9 a. m.
Semester instruction begun

April 2, Thursday, 5 p. m.
Easter recess begun

April 6, Monday, 9 a. m.
Instruction resumed

May 30, Saturday
Memorial Day

June 1 to 5, Monday-Friday
Final examinations

June 11, Thursday
Alumni Meeting

June 13, Saturday
Commencement
Chicago Professional Schools of the University

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[1] Only students who have been matriculated may register. Matriculation of freshmen begins March 1st.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, the pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists nominated by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the school on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the school the building at 721 South Wood Street formerly occupied by the Institute for Juvenile Research.

LOCATION

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

The Lecture Rooms

There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

The Laboratories

Ten laboratories having a total capacity of 700 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. An equipment of machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

The Library

The Library contains over five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

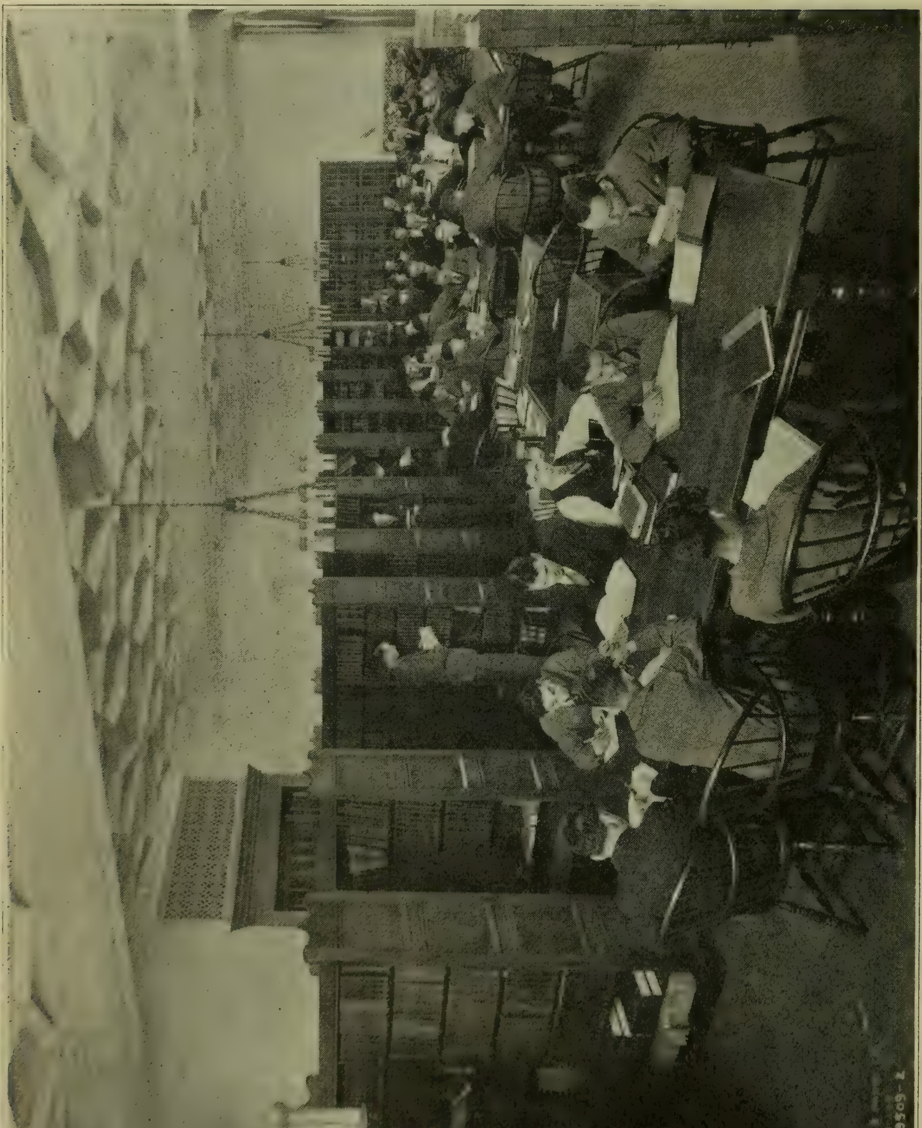
The Museum

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

The Students' Rooms

Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.



LIBRARY

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. Age

The applicant must be at least seventeen years of age.

2. Non-Illinois Students

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.,* in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. High-School Graduation

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. Prescribed Subjects

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

List A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.

5. ELECTIVES

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

LIST B	*Units*
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
English (4th unit)	1
Advanced algebra	½–1
Solid geometry	½
Trigonometry	½
History[1]	1–4
Civics	½–1
Economics and economic history	½–1
Commercial geography	½–1
Physiography	½–1
Physiology	½–1
Zoology	½–1
Botany	½–1
Physics	1–2
Chemistry	1–2

6. ADDITIONAL ELECTIVES: LIST C

The remaining four units may be chosen either from List B above or from List C:

LIST C[2]	
Astronomy	½
Geology	½–1
Agriculture	1–3
Bookkeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics)	½
Home economics	1–3
Drawing, art and design	½–1
Drawing, mechanical	½–1
Manual training[3] or farm mechanics	1–2
General science	½–1
Foreign language (other than those of List B)	1–2
Music	1–2
Shorthand and typewriting (when offered together)	1–2
Typewriting (when offered alone in double periods)	1

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty minute periods of work, including the necessary drawing and shop work.

How the Entrance Requirements May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.

2. From schools accredited by the North Central Association of Colleges and Secondary Schools.

3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.

4. From high schools and academies registered by the Regents of the University of the State of New York.

5. From schools approved by the New England College Entrance Certificate Board.

6. From schools accredited by the Southern Association of Colleges and Secondary Schools.

7. From the state teachers' colleges of Illinois and other teachers' colleges having equal requirements for graduation.

High-School Credits by Examination

High-School credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.

2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.

3. In the examinations conducted in June of each year by the College Entrance Examination Board.

4. In the examinations conducted by the Regents of the University of the State of New York.

7. State Qualifying Certificate

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

THE DEGREE OF PHARMACEUTICAL CHEMIST

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

(The degree of Graduate in Pharmacy was discontinued with the school year 1925-1926.)

REQUIREMENT OF C IN THREE-FOURTHS OF WORK FOR THE DEGREE

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

The course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

Materia Medica and Botany

Professor Day, Professor Gathercoal, Assistant Professor Wirth, Dr. Groot, Mr. Owen, Mr. Dorjahn, Miss Gallagher, Miss Stuchlik, Mr. Riendeau, Mr. Eyer, Mr. Carpenter

First Year

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor Day, Professor Gathercoal, Mr. Carpenter, Mr. Riendeau

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. Groot

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Professor Gathercoal, Mr. Carpenter, Miss Stuchlik, Mr. Riendeau

Second Year

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor Day, Assistant Professor Wirth, Mr. Dorjahn

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester.

Assistant Professor Wirth, Mr. Dorjahn, Miss Stuchlik

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Day, Assistant Professor Wirth, Mr. Dorjahn

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Assistant Professor WIRTH, Mr. DORJAHN, Miss STUCHLIK

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.

Professor GATHERCOAL, Mr. OWEN, Mr. EYER

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Mr. OWEN

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and microchemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester. Miss GALLAGHER, Mr. RIENDEAU

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER,
Mr. POWERS, Miss ROSENBLUM, Mr. MINTZ, Mr. KIRCH,
Mr. SODERDAHL, Miss KASBEER

FIRST YEAR

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester. Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.

Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester. Assistant Professor DAVIS, Mr. SODERDAHL

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U. S. P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. MINTZ

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Mr. MINTZ

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. MINTZ

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Mr. MINTZ

THIRD YEAR

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Mr. WEBSTER, Mr. POWERS, Miss KASBEER

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. POWERS, Miss KASBEER

PHARMACY

Professor SNOW, Assistant Professor TERRY, Mr. MARTIN,
Mr. MORRISON, Mr. EMIG, Mr. OCENASEK, Mr. SHKOLNIK,
Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON, Mr. LEVIN

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BALIN, Mr. REIFLER, Mr. TEMPLETON

SECOND YEAR

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Mr. Martin, Mr. Ocenasek

Third Year

10. *Operative Pharmacy.*—Three lectures and recitations and two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) First semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Levin

11. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor Terry, Mr. Emig, Mr. Levin

12. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) Second semester.

Assistant Professor Terry, Mr. Emig, Mr. Levin

13. *Advanced Dispensing.*—Three lectures and recitations, two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) Second semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Levin

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years.

Mr. Morrison, Mr. Shkolnik

SUMMARY OF THE THREE-YEAR CURRICULUM

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Laboratory		
FIRST YEAR				
First Semester				
Pharmacy 1, 2 & 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Totals for the Semester	14	10	24	17
Second Semester				
Pharmacy 4 & 5	4	3	7	5
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Totals for the Semester	12	13	25	16
SECOND YEAR				
First Semester				
Pharmacy 6 & 7	4	6	10	6
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Totals for the Semester	13	19	32	19
Second Semester				
Pharmacy 8 & 9	4	6	10	6
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Totals for the Semester	13	19	32	19
THIRD YEAR				
First Semester				
Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Totals for the Semester	10	23	33	17
Second Semester				
Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Dispensary	..	3	3	1
Totals for the Semester	8	23	31	15

Total Semester hours in three years....................................103

Average number of clock hours a week a semester.................. 29

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to three hundred dollars, to high-school graduates of the United States who wish to follow pharmacy as a vocation. Competitors for this scholarship must have completed a four-year high-school course and must have successfully finished their first year's work in a school of pharmacy holding membership in the American Association of Colleges of Pharmacy. The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

WOMAN'S LOAN FUND

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund. With accumulated interest the total amount in the fund is $646.73. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a freshman student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo. L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the School of Pharmacy, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

MATERIA MEDICA PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who, in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]	15.00	15.00	20.00	20.00	20.00	20.00
Laboratory deposit[2]	15.00	.....	15.00	.....	25.00	.....
Diploma	.....	.....	.....	.....	.....	10.00
	$90.00	$65.00	$85.00	$70.00	$95.00	$80.00

NON-ILLINOIS STUDENTS

Non-Illinois Students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories. The laboratory deposit covers breakage or damage to apparatus furnished by the School. From this deposit will be deducted the charges for apparatus broken, missing, or not returnable, also a locker fee of $1 if the student uses a locker in the coat-room.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary.

The new ten-story Y. M. C. A. building, located just two blocks north of the school, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

CHICAGO BRANCH OF THE A. PH. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

STATE REGISTRATION

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

The Dean

715 South Wood St., Chicago, Ill.

University of Illinois School of Pharmacy

Schedule 1929-30 FRESHMAN YEAR First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Arithmetic 3 Recitation Section 2-R-142 Section 3-R-213 Section 4-R-141	9-10 a. m. Arithmetic 3 Recitation Section 1-R-334 Section 2-R-142	9-10 a. m. Arithmetic 3 Recitation Section 1-R-334 Botany 1 Recitation Section 3-R-213 Section 4-R-141	9-10 a. m. Arithmetic 3 Recitation Section 3-R-213 Section 4-R-141 Pharmacy 1 Recitation Section 2 Room 334	9-10 a. m. Pharmacy 1 Recitation Section 1-R-334 Chemistry-1a Recitation Section 3-R-213 Section 4-R-141
10-11 a. m. Pharmacy 1 Lecture R-413	10-11 a. m. Chemistry 1a Recitation Section 1-R-334 Section 2-R-142	10-11 a. m. Pharmacy 1 Lecture R-413	10-11 a. m. Pharmacy 1 Recitation Section 3-R-213 Section 4-R-141 Botany 1 Recitation Section 1-R-334 Section 2-R-142	10-11 a. m. Arithmetic 3 Recitation Section 1-R-334 Section 2-R-142 Section 3-R-203 Section 4-R-141
11 a. m.-12 m. Botany 1 Lecture R-413	11 a. m.-12 m. Chemistry 1a Lecture R-340	11 a. m.-12 m. Botany 1 Lecture R-413	11 a. m.-12 m. Chemistry 1a Lecture R-340	11 a. m.-12 m. Chemistry 1a Lecture R-340
1-2 p. m. Chemistry 1a Section 1 Room 334	1-2 p. m. Chemistry 1a Section 3 Room 334	1-2 p. m. Chemistry 1a Section 2 Room 334	1-2 p. m. Chemistry 1a Section 4 Room 334	1-5 p. m. Reserved for Examinations
2-5 p. m. Chemistry 1a Laboratory Section 1 R-331	2-5 p. m. Chemistry 1a Laboratory Section 3 R-331	2-5 p. m. Chemistry 1a Laboratory Section 2 R-331	2-5 p. m. Chemistry 1a Laboratory Section 4 R-331	
1-2 p. m. Pharmacy 2 Recitation Section 2 R-120	1-2 p. m. Pharmacy 2 Recitation Section 1 R-120	1-2 p. m. Pharmacy 2 Recitation Section 4 R-120	1-2 p. m. Pharmacy 2 Recitation Section 3 R-120	
2-5 p. m. Pharmacy 2 Laboratory Section 2 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 1 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 4 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 3 R-120	
1-4 p. m. Botany 1 Laboratory Section 3 R-432	1-4 p. m. Botany 1 Laboratory Section 4 R-432	1-4 p. m. Botany 1 Laboratory Section 1 R-432	1-4 p. m. Botany 1 Laboratory Section 2 R-432	

Note:—In room numbers, the first digit indicates the floor, the second digit the building, counting from the north. Thus Room 413 is located on the 4th floor of the 1st (north) building.

University of Illinois School of Pharmacy

Schedule 1929-30 JUNIOR YEAR First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Pharmacy 6 Recitation Section 3-R-334	9-10 a. m. Chemistry 6 Recitation Section 2-R-141 Section 3-R-213	9-10 a. m. Chemistry 6 Recitation Section 1-R-142	9-10 a. m. Materia Medica 4 Recitation Section 3-R-142	
				9 a. m.-12 m. Pharmacognosy 5 Laboratory Section 2 Room 113 9-11 a. m. Chemistry 5 Laboratory Section 1 Room 220 9-10 a. m. Pharmacy 7 Laboratory Section 3 Room 142
10-11 a. m. Chemistry 6 Lecture Room 340	10-11 a. m. Pharmacy 6 Lecture Room 413	10-11 a. m. Pharmacy 6 Recitation Section 1-R-141 Section 2-R-142	10-11 a. m. Pharmacy 6 Lecture Room 413	10 a. m.-12 m. Pharmacy 7 Laboratory Section 3 Room 231
11 a. m.-12 m. Materia Medica 4 Recitation Section 1-R-141 Section 2-R-142	11 a. m.-12 m. Materia Medica 4 Lecture Room 413	11 a. m.-12 m. Chemistry 6 Lecture Room 340	11 a. m.-12 m. Materia Medica 4 Lecture Room 413	11 a. m.-12 m. Chemistry 5 Section 1 Rooms 213 and 334
1-2 p. m. Pharmacognosy 5 Recitation Section 1-R-213 Pharmacy 7 Recitation Section 2-R-142	1-2 p. m. Chemistry 5 Lecture Room 340 1-2 p. m. Pharmacy 7 Section 1 Room 142	1-2 p. m. Pharmacognosy 5 Recitation Section 2-R-213 1-2 p. m. Pharmacy 7 Recitation Section 3-R-142	1-2 p. m. Chemistry 5 Lecture Room 340 2-3 p. m. Pharmacy 7 Section 2 Room 142	1-2 p. m. Pharmacy 7 Recitation Section 1-R-142 Pharmacognosy 5 Recitation Section 3-R-213
1-4 p. m. Chemistry 5 Laboratory Section 3-R-320	1-4 p. m. Chemistry 5 Laboratory Section 2 Room 220	1-4 p. m. Chemistry 5 Laboratory Section 1-R-220	2-4 p. m. Chemistry 5 Laboratory Section 3-R-320	1-4 p. m. Chemistry 5 Laboratory Section 2 Room 220
4-5 p. m. Chemistry 5 Section 3 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 2 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 1 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 3 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 2 Rooms 213 and 334
2-5 p. m. Pharmacognosy 5 Laboratory Section 1-R-113 Pharmacy 7 Laboratory Section 2 R-113	3-5 p. m. Pharmacy 7 Laboratory Section 1-R-231 2-5 p. m. Pharmacognosy 5 Laboratory Section 3-R-113	2-5 p. m. Pharmacognosy 5 Laboratory Section 2-R-113 Pharmacy 7 Laboratory Section 3-R-231	3-5 p. m. Pharmacy 7 Laboratory Section 2-R-231 2-5 p. m. Pharmacognosy 5 Laboratory Section 1-R-113	2-5 p. m. Pharmacy 7 Laboratory Section 1-R-231 Pharmacognosy 5 Laboratory Section 3-R-213

University of Illinois School of Pharmacy

Schedule 1929-30 **SENIOR YEAR** First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9 a. m. Chemistry 10 Section 1 Rooms 141 and 334		8-9 a. m. Chemistry 10 Section 2 Rooms 141 and 334	8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		
9 a. m.-12 m. Chemistry 10 Laboratory Section 1-R-431		9 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		9-10 a. m. Pharmacy 10 Seminar Room 413	
9 a. m.-12 m. Bacteriology 8 Laboratory Section 2-R-215 Pharmacy 10 Laboratory Section 3-R-131	9 a. m.-12 m. Pharmacognosy 10 Laboratory Section 3-R-113 Bacteriology 8 Laboratory Section 1-R-215	9 a. m.-12 m. Pharmacy 10 Laboratory Section 1-R-131	9 a. m.-12 m. Bacteriology 8 Laboratory Section 1-R-215 Pharmacognosy 10 Laboratory Section 3-R-113		9 a. m.-12 m. Bacteriology 8 Laboratory Section 1-R-215
				10-11 a. m. Chemistry 9 Lecture Room 340	
	11 a. m.-12 m. Bacteriology 8 Recitation Section 2-R-213			11 a. m.-12 m. Pharmacy 10 Lecture Room 413	
	1-2 p. m. Pharmacy 10 Lecture Room 413	1-2 p. m. Bacteriology 8 Recitation Section 1-R-141	1-2 p. m. Bacteriology 8 Lecture Sections 1 & 2 Room 413	1-2 p. m. Bacteriology 8 Lecture Sections 1 & 2 Room 413	
1-2 p. m. Pharmacy 10 Recitation Section 2-R-142		1-2 p. m. Pharmacy 10 Recitation Section 3-R-142	1-2 p. m. Chemistry 10 Section 3 Rooms 141 and 213		
2-5 p. m. Pharmacy 10 Laboratory Section 2-R-131		2-5 p. m. Pharmacy 10 Laboratory Section 3-R-131 Bacteriology 8 Laboratory Section 2-R-215			
1-5 p. m. Chemistry 10 Laboratory Section 1-R-431		2-3 p. m. Pharmacy 10 Recitation Section 1-R-142	2-5 p. m. Chemistry 10 Laboratory Section 3-R-431	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	
	2-3 p. m. Chemistry 10 Lecture Room 340				
			2-5 p. m. Pharmacy 10 Laboratory Section 2-R-131	2-5 p. m. Pharmacy 10 Laboratory Section 1-R-131 Bacteriology 8 Laboratory Section 2-R-215	
	3-4 p. m. Chemistry 9 Lecture Room 340				

DEGREES, 1930

Degree of Pharmaceutical Chemist

(Conferred February, 1930)

Bixler, Dale M.	*Newton*	
Bowman, Burton	*Mt. Carroll*	
Coughlin, John E.	*Chicago*	
Frew, Clarence A.	*Chicago*	
Sachs, Maurice Robert	*Chicago*	
Susman, Louis	*Chicago*	
Von Drasek, John Simon George	*Brookfield*	
Becker, Philip Wilens	*Chicago*	(Class of 1929)
Gerbosi, William	*Chicago*	(Class of 1929)
Levinson, Sol. E.	*Chicago*	(Class of 1929)
Rosenthal, Arthur Meyer	*Chicago*	(Class of 1929)
Vick, Harold Alfred	*Elgin*	(Class of 1929)
Winer, Samuel Bell	*Chicago*	(Class of 1929)
Worshill, Sam	*Chicago*	(Class of 1929)

(Conferred June, 1930)

Ackerman, Sidney	*Chicago*
Adamson, Raymond Sigfrid	*Chicago*
Andrzelczyk, Henry W.	*Chicago*
Arnold, Celia	*Chicago*
Avallone, Dominic Arthur	*Brookfield*
Barone, Dante Rosario	*Chicago*
Bates, Dorothy Elizabeth	*Chicago*
Boljesik, George William	*Chicago*
Bostic, David	*Chicago*
Bowers, LeRoy J.	*Waukegan*
Brody, Bernard Benjamin	*Chicago*
Bruch, Gerston	*Chicago*
Burda, Bessie Filomena	*Chicago*
Brunstein, Jacob J.	*Chicago*
Carpenter, Ralph Allen	*Mt. Vernon*
Cerny, Charles	*Chicago*
Cohen, Irving Edward	*Chicago*
Collins, John Geers	*Triplett, Missouri*
Collins, William Robert	*Chicago*
Chelovich, Vaso	*Chicago*
DeGroot, John Peter	*Chicago*
Dobin, Raymond Alfred	*Chicago*
Dodge, Richard Carvel	*Aurora*
Doyle, Joseph Edward	*Spring Valley*
Drechsler, Henry Christian	*Chicago*
Duzansky, William	*Chicago*
Ehrhart, Roger Urban	*Chicago*

Epstein, Martin	*Chicago*
Esposito, Dominic	*Chicago*
Faigle, Ernest Theodore	*Chicago*
Fetherston, Franklin James	*Chicago*
Finkel, Abraham David	*Chicago*
Fitzel, Harry Arthur	*Chicago*
Forney, Walter Harvey	*Olney*
Franklin, Joseph	*Chicago*
Garmus, Stanley John	*Cicero*
Gentile, Joseph	*Blue Island*
Goland, Nathan	*Chicago*
Goldberg, Barney	*Chicago*
Goldberg, Morton Ray	*Chicago*
Goldensen, Herman	*Chicago*
Gordon, Jack Harold	*Chicago*
Gordon, Sidney Milton	*Chicago*
Goslin, Alfred R.	*Streator*
Gruebling, William J. C.	*Chicago*
Harlacher, John Joseph	*Chicago*
Hassen, Erwin	*Chicago*
Hoft, James Paul	*Berwyn*
Inhoff, Elbert Harold	*Pecatonica*
Kahn, Julius Irving	*Chicago*
Kadish, Kalman	*Chicago*
Kaminski, Edward Waclaw	*Chicago*
Kaplan, David	*Chicago*
Kaplovitz, Sol P.	*Chicago*
Kass, Jacob	*Chicago*
Kaveney, Francis Joseph	*Joliet*
Keating, Edward Francis	*Chicago*
Kramarczyk, Walter Andrew	*Chicago*
Krueger, Marvin Henry	*Forest Park*
Lacey, Herbert John	*Chicago*
Laegeler, Charles Bach	*Highland Park*
Laegeler, Lester	*Highland Park*
Levenson, David Harry	*Chicago*
Liberman, Jacob	*Chicago*
Long, Glenn A.	*Joliet*
Lupian, Josefina	*Chicago*
Lipschutz, Paul Harold	*Chicago*
McClintock, Thomas Sidney	*Herrin*
Mannaberg, Robert	*Chicago*
Marcoff, Benjamin	*Chicago*
Mathews, Kate Allison	*Evanston*
Meilach, Joseph Samuel	*Chicago*
Mendelson, Morris M.	*Chicago*
Miastowski, Edward Edmund	*Chicago*
Miller, Carl Wesley	*Chicago*
Nitzberg, Robert Harry	*Chicago*
Okonski, Anthony John	*Chicago*
Patkes, Joseph A.	*Chicago*
Perdenza, Joseph A.	*Chicago*

Picker, Hershel		*Assumption*
Pippenger, Howard Francis		*Chicago*
Pleshar, George Joseph		*Chicago*
Pinta, Edward Francis		*Chicago*
Reisler, Irving G.		*Chicago*
Rezabek, Louis William		*Cicero*
Ritt, Julius A.		*Joliet*
Ritzlin, Philip		*Chicago*
Roth, Irving		*Chicago*
Sager, Edward Irving		*Chicago*
Sammons, Chester Benjamin		*Springfield*
Sax, Bernard		*Chicago*
Scheffel, Jr., Louis Anthony		*Chicago*
Schneider, Joseph A.		*Chicago*
Smith, Calvin Lamar		*Chicago*
Sojat, Frank Anthony		*Chicago*
Sonshine, Reuben A.		*Chicago*
Stangle, Leo		*Chicago*
Starulis, Frances		*Chicago*
Stephens, Howard G.		*Rushville*
Tanny, Michael		*Chicago*
Teitelbaum, Louis Samuel		*Chicago*
Thornton, Irwin Stanley		*Chicago*
Triscinzzi, Victor		*Chicago*
Trueheart, William		*Chicago*
Tepper, Frank		*Chicago*
Wallace, Jr., Harry E.		*Chicago*
Warning, John		*Chicago*
Waytz, Max		*Chicago*
Weinberg, Isadore		*Chicago*
Weinstein, William Harry		*South, Haven, Michigan*
Weissman, Paul		*Chicago*
Wilson, Vera Irene		*Chicago*
Wilson, Yoland Bartas		*Ft. Wayne, Indiana*
Zavrel, Emil Frank		*Chicago*
Zfaney, Morris		*Chicago*
Ziman, Philip		*Chicago*
DiGilio, Frank Nick	(Class of 1929)	*Chicago*
Faingold, Joseph Edwin	(Class of 1929)	*Chicago*
Florest, Samuel L.	(Class of 1929)	*Chicago*
Hansen, Thorkild Nordby	(Class of 1929)	*Chicago*
Lang, Morris	(Class of 1929)	*Chicago*
Nachtman, Ernest	(Class of 1929)	*Berwyn*

CERTIFICATES IN PHARMACY

Students who have completed the course for Graduate in Pharmacy in the School of Pharmacy of the University of Illinois and who will be entitled to the degree upon attaining the age of twenty-one years.

Balchofsky, Milton Irving	*Chicago*
Gdalman, Louis†	*Chicago*
Gershon, Solomon†	*Chicago*
Katra, Adolph	*Chicago*
Rosenberg, Albert	*Chicago*
Taylor, Samuel	*Chicago*

HONORS AND PRIZES

HONORS

LOUIS GDALMAN
SOLOMON GERSHON

PRIZES

SCHERER PHARMACY PRIZE	John G. Collins
MRAZEK CHEMISTRY PRIZE	Solomon Gershon
PEDIGO MATERIA MEDICA PRIZE	Max Waytz
HODEL-SALTIEL-HODEL PRIZE	Louis Gdalman
WILLIAM GRAY PRIZE	Walter A. Kramarczyk
S. L. ANTONOW PRIZE	Frances Starulis

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†Honors.

LIST OF STUDENTS, 1929-30

Course for Pharmaceutical Chemist

FRESHMEN

Aaron, Jerome	*Chicago*
Abramchik, William V.	*Chicago*
Alvey, Homer W.	*Lincoln*
Anderson, Gilbert Scott	*Chicago*
Andro, Robert Louis	*Chicago*
Anzalone, Salvatore	*Chicago*
Ardean, Nicholas	*Harvey*
Armsworth, James Adkins	*Monticello*
Artis, Bert George	*Chicago*
Atwood, Wayne Thaxton	*Marion*
Axelrod, David	*Chicago*
Backer, Meyer	*Chicago*
Baker, Frances Lillian	*Chicago*
Baker, John Henry	*Freeport*
Baldwin, Harry Eugene	*Chicago*
Balsamo, Roy James	*Chicago*
Bardo, Stanley	*Chicago*
Barnett, Mary Natalie	*Chicago*
Barrington, Walter Tom	*Chicago*
Benes, Edward	*Chicago*
Berger, Ben Bernard	*Chicago*
Blewett, Kanna Gibson	*Chicago*
Blinstrup, Chester John	*Chicago*
Blum, Ira S.	*Chicago*
Borovicka, George Edward	*Cicero*
Borrelli, Donald Anthony	*Chicago*
Bostic, Victor	*Chicago*
Boyle, Daniel Christopher	*Chicago*
Brandt, Stephen Raymond	*Chicago*
Briedis, Henry	*Chicago*
Brooks, Burton Chester	*Hillsboro*
Bukovsky, Marie E.	*Chicago*
Capparelli, Antonio Benny	*Chicago*
Carter, Albert Bernard	*Forest Park*
Cassettari, Aldo	*Chicago*
Cech, Joseph Jerry	*Berwyn*
Chase, Dwight E.	*Belle Rive*
Chelovich, Spas	*Chicago*
Chivis, Bertram Glas	*St. Charles*
Chladek, Edward G.	*Chicago*
Chock, Wah Kan	*Hilo, Hawaii*
Christiansen, Roy Eilert	*Chicago*
Cirrincione, Mario Anthony	*Chicago*

Cohen, Harold Norman	*Chicago*
Coleman, Joseph L.	*Chicago*
Cook, Thomas Donald	*Chicago*
Cooperman, Seymour	*Chicago*
Corcoran, Joseph Anthony	*Chicago*
Crane, Sidney	*Chicago*
Cribb, Helen Ione	*Antioch*
Cunningham, Newton Miller	*Champaign*
Delhaye, Roy Joseph	*Highland Park*
Dettloff, Clarence Anthony	*Chicago*
Drew, Paul Robert	*Dixon*
Drexel, Frank	*Chicago*
Drockman, Sydney	*Chicago*
Dudley, Royal Sherwood	*Chicago*
Dunham, N. Kelly	*New Salem*
Eastburn, Russell Emerson	*Watseka*
Elliott, Frederick Noel	*Chicago*
Enrietta, John	*Coal City*
Ewald, John J.	*Chicago*
Fair, Fay Ray	*Chicago*
Frank, James Louis	*Cicero*
Franklin, Sidney	*Chicago*
Frederickson, Elton A.	*Gardner*
Frey, Orville Robert	*Chicago*
Friesenecker, Earl M.	*Chicago*
Geleta, Walter Joseph	*Joliet*
Giles, John Clifford	*Monmouth*
Glass, Harvey	*Chicago*
Godare, Francis Eugene	*St. Francisville*
Goelet, Arthur Albert	*Forest Park*
Goland, Hyman H.	*Chicago*
Goldberg, Maurice	*Chicago*
Golden, Boris	*Chicago*
Golden, David	*Chicago*
Goldenberg, Nathan	*Chicago*
Goldman, Al Harry	*Chicago*
Goldsmith, Leo Adolph	*Chicago*
Gorodazky, Rose Lillian	*Chicago*
Goslin, Arthur	*Streator*
Grais, Joseph	*Chicago*
Greenberg, Benjamin	*Chicago*
Gurvitz, Morris	*Chicago*
Gvozdjak, Mary	*Chicago*
Haidemowicz, Wm. S.	*Chicago*
Haka, Helge Jack	*DeKalb*
Harney, Martin J.	*Chicago*
Harris, John Daniel	*Chicago*
Hartleb, Harry Harvey	*Gurnee*
Hartsough, Beth Irene	*Rockford*
Harvat, Anthony Wm.	*Chicago*
Heinrich, Irving L.	*Chicago*

Hendrych, William Anton	*Oak Park*
Henninger, Ralph Marshall	*Rushville*
Hing, Jair James	*Chicago*
Hirsch, Herman Louis	*Chicago*
Hitzelberger, Hugo Robert	*Chicago*
Hofrichter, Joseph James	*Chicago*
Hook, Delbert	*Lake Villa*
Hopson, Herman Giles	*Chicago*
Hora, James Leopold	*Cicero*
Horky, Charles Joseph	*Berwyn*
Hronek, Joseph Wm.	*Chicago*
Hula, Joseph A.	*Chicago*
Hybke, Ralph S.	*LaSalle*
Israelite, Sidney	*Chicago*
Johnson, Willard Wm.	*Chicago*
Jones, Roy Allen	*Mt. Vernon*
Kaczkowski, Raymond	*Chicago*
Kahl, Dorothy Marion	*Maywood*
Kakanauskas, Charles Peter	*Cicero*
Kalina, George Edward	*Chicago*
Kalsow, Norman Wilbur	*Huntley*
Kantenis, Frank	*Chicago*
Kaplan, Harry J.	*Chicago*
Kaplan, Jack	*Chicago*
Karras, Nick John	*Melrose Park*
Karwowski, Edmund Florien	*Chicago*
Kester, Harold Charles	*Downers Grove*
King, Victor Henry	*Rice Lake, Wisconsin*
Kirincich, Nicholas John	*Joliet*
Kisla, Francis S.	*Chicago*
Klima, Joseph	*Chicago*
Klostermann, Eberhard Julius	*Chicago*
Kohn, Blossom	*Chicago*
Kohout, Frank	*Chicago*
Korinek, Frank Joseph	*Berwyn*
Korous, Mildred Joan	*Brookfield*
Kotlan, George Wm.	*Cicero*
Krestan, Frank V.	*Chicago*
Krinsky, Edward Mussaf	*Chicago*
Krisher, Torrence Marion	*Farmington*
Krupa, Bronislaus Thomas	*Chicago*
Kuech, Sister M. Victoria	*Chicago*
Kuhn, Wilbur Joseph	*Pana*
Kurofsky, Jacob	*Chicago*
Lacey, John F.	*Grand Ridge*
Ladigo, Peter	*Cicero*
LaRocca, James Anthony	*Chicago*
Lerner, Harry Rebstien	*Chicago*
Lescauski, Harriet	*Chicago*
Lesinski, Edward Victor	*Chicago*
Levin, David	*Chicago*

Levin, Jack	*Chicago*
Levin, Nathan	*Chicago*
Lichtenstein, Abraham H.	*Chicago*
Little, William Charles	*Chicago*
Litvin, Daniel	*Chicago*
Lohr, Joseph Edward	*Cicero*
Luczak, Roy	*Chicago*
Ludtka, Sylvester	*Chicago*
Lurie, Iran	*Chicago*
Lynch, Joseph John	*Chicago*
Lynch, Milton Vincent	*Rockford*
Lyznicki, Benny Stanley	*Argo*
McCann, Harold	*Chicago*
McKenna, Edward Joseph	*Chicago*
McMahon, Francis William	*Chicago*
Maclin, John Eugene	*DuQuoin*
Maggio, Frank Joseph	*Chicago*
Magid, Richard K.	*Chicago*
Mailman, Louis L.	*Chicago*
Malishefsky, Boris	*Chicago*
Malone, Anne	*LaSalle*
Markovsky, Harry	*Chicago*
Mayden, Marcelite Mary	*Chicago*
Mazurek, John M.	*Chicago*
Michael, James Edward	*Chicago*
Michalek, Joseph	*Brookfield*
Millard, Isadore I.	*Chicago*
Millman, Alex	*Chicago*
Misjukowetz, Nicholas	*Chicago*
Monaco, Rose Evelyn	*Chicago*
Moreth, John Frank	*Chicago*
Morrison, Harold Ramon	*Chicago*
Mosteika, Anthony Charles	*Chicago*
Motto, Salvatore	*Chicago*
Movit, Samuel I.	*Chicago*
Mrozowski, Walter	*Chicago*
Murphy, Joseph N.	*Chicago*
Mutchnik, Meyer	*Chicago*
Naslund, Halger Carl	*Chicago*
Neikrug, David	*Chicago*
Nicolopulos, Nicholas P.	*Chicago*
Niemiec, Thaddeus Victor	*Chicago*
Nordland, Medary	*Chicago*
Olney, James John	*Chicago*
Oris, Alexander Manuel	*Chicago*
Ouda, Roderic	*Chicago*
Packer, Louis	*Chicago*
Pankowiak, Edward	*Chicago*
Pankros, Chester	*Chicago*
Penkauskas, Joseph	*Joliet*
Perlman, Benjamin	*Chicago*

Perrelli, Rocco	*Cicero*
Perrelli, Salvatore	*Cicero*
Petrauskas, Wm. Joseph	*Chicago*
Plohocki, Zenon Kazimer	*Chicago*
Plotkin, Jules	*Chicago*
Pochron, Helen	*Chicago*
Poklenkowski, Hedwig Agnes	*Chicago*
Polacek, Jerry John	*Berwyn*
Polen, William Estel	*Peoria*
Press, Joseph Herman	*Chicago*
Quillman, Peter	*Valier*
Rabold, John Michael	*Chicago*
Raispis, James Charles	*Chicago*
Rapoport, Benjamin Harold	*New Salem, North Dakota*
Reed, Thomas Asbury	*Buckley*
Reimers, Robert J.	*Moline*
Rice, Albert	*Chicago*
Rini, Vincent Frank	*Chicago*
Roskin, Nathan	*Chicago*
Ross, Samuel Edward	*Chicago*
Rowland, Hugh Aloysius	*Chicago*
Rozen, Charles	*Chicago*
Rubin, Edward	*Chicago*
Ruckstuhl, Francis George	*Chicago*
Rudnicke, Jacob A.	*Chicago*
Rupinski, John C.	*Chicago*
Russinof, Louis Jacob	*Chicago*
Russo, Romeo Jasper	*Chicago*
Sand, Carl Albert	*Beloit, Wisconsin*
Sanda, Joseph Anton	*Berwyn*
Schain, Harold	*Chicago*
Schampel, Frank D.	*Chicago*
Scharf, Albert Charles	*Chicago*
Schechtman, Joseph	*Chicago*
Schindel, Arthur Fred	*Aurora*
Schlan, George Leon	*Chicago*
Schubert, Bohumil Frank	*Riverside*
Shenberg, Milton	*Chicago*
Sherman, Louis Charles	*Chicago*
Shimanek, Harold	*Streator*
Shipla, Joseph	*Cicero*
Shrout, Duane Call	*Taylorville*
Siegan, Sidney O.	*Chicago*
Skaggs, Frank Pryor	*Harrisburg*
Skor, James	*Chicago*
Soltes, John S.	*Chicago*
Soukup, Leo	*Highland Park*
Sponder, Wanda Florence	*Chicago*
Stangle, Edward	*Chicago*
Steinberg, Bernard Joseph	*Chicago*
Steinberg, Hymen Wm.	*Chicago*

Stoller, Samuel J.	*Chicago*
Straus, Sam	*Chicago*
Sugarman, Leslie	*Chicago*
Swoboda, William	*Chicago*
Sypel, Joseph E.	*Chicago*
Szczodrowski, Edward Stanley	*Chicago*
Tarsitano, James Eugene	*Chicago*
Thomas, Jacob	*Chicago*
Tobias, Milton	*Maywood*
Tobin, Meyer H.	*Chicago*
Tokarz, John Henry	*Chicago*
Toynton, Hollis John	*Palatine*
Udesky, Hymen Leon	*Chicago*
Urbanowicz, Leona Felicia	*Chicago*
Vacha, Joseph Frank	*Berwyn*
Valentino, Anthony Dominick	*Chicago*
Vernieri, Joanna Marie	*Chicago*
Vesely, Jerome Albert	*Chicago*
Villani, Joseph Robert	*Chicago*
Vondrak, Charles Joseph	*Chicago*
Waitkus, Sophie	*Chicago*
Walton, Robert Paul	*Chicago*
Walworth, Albert James	*Oak Park*
Wantroba, Andrew Frank	*Chicago*
Washburn, Willard Kenneth	*Moline*
Watt, Valentine	*Springfield*
Wedral, Jerry William	*Cicero*
Weinstein, Max	*Chicago*
Welch, Frank Joseph	*Chicago*
Wexler, Bennie L.	*Chicago*
Wicks, Harold Eugene	*Woodstock*
Wiesner, Franklin J.	*Savanna*
Witt, Sister M. Vitalis	*Chicago*
Wolters, Wayne Bernard	*Havana*
Woodward, Ira J.	*West De Pere, Wisconsin*
Wright, William Wilkinson	*Chicago*
Youssi, Harold Edward	*Batavia*
Zabella, Joseph S.	*Chicago*
Zahrobsky, Wm. Frank	*Cicero*
Zajkowski, Stanley Jacob	*Chicago*
Zazra, Harry	*Chicago*
Zimmerman, Mary E.	*Chicago*
Zopolsky, Harry	*Chicago*

JUNIORS

Adderley, Verna Mae	*Chicago*
Albrecht, Obed Wm.	*Belvidere*
Allen, John W.	*Elmhurst*
Anderson, William	*Three Lakes, Wisconsin*
Baginski, Anthony Joseph	*Chicago*
Bahrij, Stanley Max	*Chicago*

Baker, Florence Marie	*Chicago*
Baker, Homer Uhl	*Morris*
Ballin, Norman Henry	*Chicago*
Barcheski, Clement John	*Chicago*
Bard, Max	*Chicago*
Barone, Anthony Joseph	*Chicago*
Barovsky, Carl	*Chicago*
Beeby, James Addison	*Chicago*
Berg, Elmer Arthur	*Chicago*
Berlin, Harry	*Chicago*
Bernstein, Milton Chester	*Chicago*
Beskin, Harry Sidney	*Chicago*
Biddle, George Gunther	*Chicago*
Bidzinski, Zenon Stanley	*Chicago*
Biedka, Marie Henrietta	*Chicago*
Biestek, Paul John	*Cicero*
Blanchette, Lorenzo Gerard	*Bourbonnais*
Blauner, Wm.	*Chicago*
Bouzek, Charles Richard	*Chicago*
Brachtl, James	*Chicago*
Bregenzer, Henry Amedee	*Kankakee*
Brogdon, Ralph	*St. John*
Budny, Jerome	*Chicago*
Burkhart, Lyle Alfonso	*LaHarpe*
Burns, Clarence William	*Elgin*
Calabrese, Michael Dominic	*Chicago*
Calabrese, Rocco Robert	*Chicago*
Campbell, John Clayton	*Dixon*
Carter, Joseph Henry	*Monmouth*
Carter, Royal Lincoln	*Downers Grove*
Cash, Richard Lyndhurst	*Chicago*
Catelani, Alfred	*Chicago*
Cervak, George Norbert	*Chicago*
Chesta, John	*Chicago*
Chidensky, Charles B.	*Chicago*
Chidensky, Jacob	*Chicago*
Cihocki, John E.	*Chicago*
Cinefro, John A.	*Chicago*
Cline, J. M.	*Herrin*
Cohen, Ellen	*Chicago*
Cohen, Samuel	*Chicago*
Corson, Harold Reid	*Genoa*
Cronin, John Edward	*Chicago*
Cunningham, Wm. Lynn	*Lincoln*
Curtin, Thomas John	*Chicago*
Czaja, Walter Joseph	*Chicago*
Daniel, John B.	*Chicago*
Darnell, Hubert Melvin	*Peoria*
DeStefano, Emilio	*Melrose Park*
DeTrana, Loretta	*Chicago*
Dietrich, Clarence Edward	*Crown Point, Indiana*

Dragel, Daniel	*Chicago*
Drazek, Aloysius	*Chicago*
Duleba, Joseph William	*Chicago*
Dvorak, George J.	*Chicago*
Dworkin, Sidney	*Chicago*
Engh, Herbert T.	*Chicago*
Engwall, Thor Theodore	*Chicago*
Epstein, Sam	*Chicago*
Fawcett, Charles Theodore	*Princeton*
Fay, Lloyd Joseph	*Watseka*
Filip, Joseph A.	*Cicero*
Fireston, Philip	*Chicago*
Fisher, Elmer	*Chicago*
Fisher, Sidney	*Chicago*
Fogen, Meyer Harold	*Chicago*
Fridkin, Carl	*Chicago*
Friedland, Benjamin M.	*Chicago*
Friedman, Edward J.	*Chicago*
Gaberman, Louis	*Chicago*
Gaensslen, Frieda Emily	*Green River, Wyoming*
Gandell, Max	*Chicago*
Geis, Paul Edward	*Dwight*
Giguere, Sister St. Charles	*Kankakee*
Giurato, James	*Chicago*
Gliniecki, Edward Stanley	*Chicago*
Goldsmith, Myron	*Chicago*
Greenberg, Seymour	*Chicago*
Greenberg, William	*Chicago*
Hajicek, Bohumil	*Chicago*
Handler, Jay Allen	*Chicago*
Hanson, Cervensel	*Lockport*
Hanson, Otto Andrew	*River Forest*
Hoffen, Samuel A.	*Chicago*
Holton, Elvera Marie	*Chicago*
Horwitz, Harold	*Chicago*
Israelite, Abe	*Chicago*
Jacobson, Emanuel	*Chicago*
Jacobson, Isadore J.	*Chicago*
Jahn, Wm. Otto Carl	*Chicago*
Jarecki, Roman A.	*Chicago*
Johnson, Harold Gustav	*Paxton*
Johnson, Harold Walter	*Rockford*
Johnson, Russell E.	*Chicago*
Jung, Edward Frank	*Chicago*
Juskevic, Leo Joseph	*Chicago*
Kalom, Joseph	*Chicago*
Kaspar, Milton James	*Chicago*
Katz, Joseph Bernard	*Chicago*
Katz, Samuel Harry	*Chicago*
Kelley, Preston Woodson	*Easley, Missouri*
Kelly, Robert Emmett	*Chicago*

Kepner, Henry Sieber	*Chicago*
Kirkham, Wm. Watt	*Waukegan*
Kolowski, Edward	*Chicago*
Korshak, Maurice	*Chicago*
Kortum, Lloyd Harold	*Chicago*
Koster, Henry Louis	*Chicago*
Kostlevy, George Charles	*Chicago*
Kowalski, Arnold	*Chicago*
Kramer, Michael	*Chicago*
Kurczek, John	*Berwyn*
Kutza, Maryan	*Chicago*
Kwasnicki, Joseph Mitchell	*Chicago*
Lapinski, Adolph	*Chicago*
Larocco, Carlo	*Chicago*
Lendino, Angelo J.	*Chicago*
Levinsky, Leonard	*Chicago*
Levy, Celia	*Chicago*
Lindwall, Walter A.	*Blue Island*
Lis, Leo Anthony	*Chicago*
Listecki, Edmund Anton	*Chicago*
Lundholm, Wallace Erick	*Moline*
Lyman, Francis Patrick	*Chicago*
McClellan, Percy	*Park City, Utah*
Mack, Frank John	*Marengo*
Madura, Stephen Matthews	*Chicago*
Magad, Harry	*Chicago*
Mages, Joseph A.	*Maywood*
Maggio, Rosa W.	*Chicago*
Makoff, Herman Lewis	*Chicago*
Mantel, Nathan	*Maywood*
Marzano, Christopher	*Chicago*
Marzullo, Salvatore	*Chicago*
Mason, Sam Herschel	*Chicago*
Masters, William	*Chicago*
Mazur, Casimir Robert	*Chicago*
Meilach, Louis	*Chicago*
Menn, Benjamin Webster	*Chicago*
Meyerhoff, Ralph Max	*Chicago*
Miller, Elmer Samuel	*Chicago*
Miller, Sol	*Chicago*
Miraglia, Nicholas	*Chicago*
Murray, William J.	*Chicago*
Neal, John Lewis	*Springfield*
Neill, Howard Cline	*Downers Grove*
Nelson, Spencer Stanley	*Batavia*
Nepil, Erwin Albert	*Chicago*
Newman, Clarence	*Chicago*
Odess, George	*Chicago*
Oehler, Richard	*Chicago*
O'Grady, Walter	*Chicago*
Okon, Stephen M.	*Chicago*

Pandolfo, Joseph Nicholas	*Chicago*
Pape, Melvin F.	*LaGrange*
Pauker, Jerome	*Chicago*
Penney, Arthur Jackson	*Champaign*
Perkins, Alden Harry	*Belvidere*
Peterson, Glenn	*Chicago*
Peterson, Raymond	*Joliet*
Petrick, Milton Ernest	*Chicago*
Picker, Louis	*Chicago*
Piwowar, Ladislaus Francis	*Chicago*
Placek, Frank Otto Joseph	*Cicero*
Press, Maurice	*Chicago*
Preskus, Julius Adam	*Chicago*
Pratt, Ralph	*Dwight*
Pszota, Joseph	*Chicago*
Reiss, Allen	*Chicago*
Renfroe, James Anderson	*Chicago*
Riback, Maurice	*Chicago*
Rochkes, Joseph James	*Pana*
Rosengard, Morris	*Mt. Clemens, Michigan*
Rosenthal, Julius	*Chicago*
Rosy, Remo	*Chicago*
Rosy, Victor	*Chicago*
Rothe, Arthur	*Chicago*
Rotstein, Benjamin	*Chicago*
Sager, Ben	*Chicago*
Sass, Joseph	*Chicago*
Savage, Harold Francis	*Lincoln*
Schell, Albert DeWitt	*Chicago*
Schneider, Maxwell Kenneth	*Orion*
Schwab, Arthur Charles	*Cicero*
Schwaba, Mildred Agnes	*Chicago*
Schwartz, Abraham	*Chicago*
Schwartz, Reuben	*Chicago*
Segal, Abe R.	*Chicago*
Sellek, Earl Leroy	*Chicago*
Shanks, Charles Leonard	*Chicago*
Shapiro, Maxwell	*Chicago*
Sloan, Jacob	*Chicago*
Surak, John Edward	*Chicago*
Takiff, Lionel	*Chicago*
Tessitore, John	*Chicago*
Thompson, John Henry	*Chicago*
Thompson, Robert Annon	*Oak Park*
Torgownik, Irving	*Chicago*
Traub, Vernon Clair	*Lacon*
Trejbal, Mildred	*Chicago*
Trulli, Martin Harry	*Chicago*
Tuma, James George	*Berwyn*
Turck, Solly Charles	*Chicago*
Vanek, Otto Miles	*Berwyn*

Varco, Joseph F.	*Chicago*
Veatch, Cleo Wm.	*Harrisburg*
Vold, Ben	*Chicago*
Wallmark, Clifford Fredrick	*Sycamore*
Washington, Francis Wendell	*Chicago*
Weinstein, Mitchell	*Chicago*
Weitzman, Louis Nathan	*Chicago*
Wernick, Elka Davis	*Chicago*
Wesolowski, Thaddeus	*Cicero*
West, Francis Joseph	*Dwight*
White, Charles Miller	*Chicago*
Wright, George Clarence	*Springfield*
Wright, Seymour Lawrence	*East Moline*
Zaleski, Rufin Harold	*Chicago*
Zatz, Maurice	*Chicago*
Zdrubek, Vivian Janice	*Chicago*
Zeitz, Philip	*Chicago*
Zentner, Lyle Philip	*Streator*

SENIORS

Ackerman, Sidney	*Chicago*
Adamson, Raymond Sigfrid	*Chicago*
Andrzelczyk, Henry Walter	*Chicago*
Arnold, Celia	*Chicago*
Avallone, Dominic Arthur	*Brookfield*
Balchofsky, Milton	*Chicago*
Barone, Dante Rosario	*Chicago*
Bates, Dorothy Elizabeth	*Chicago*
Becker, Garry	*Chicago*
Bixler, Dale Maurice	*Newton*
Boljesik, George Wm.	*Chicago*
Bostic, David	*Chicago*
Bowers, LeRoy J.	*Waukegan*
Bowman, Burton	*Mt. Carroll*
Brody, Bernard Benjamin	*Chicago*
Bruch, Gerston	*Chicago*
Brunstein, Jacob	*Chicago*
Burda, Bessie Filomena	*Chicago*
Calisoff, Hyman	*Chicago*
Carpenter, Ralph Allen	*Mt. Vernon*
Cerny, Charles	*Chicago*
Chelovich, Vaso	*Chicago*
Clark, Lewis Buckingham	*Chicago*
Cohen, Irving Edward	*Chicago*
Collins, John Geers	*Triplett, Missouri*
Collins, Wm. R.	*Chicago*
Coughlin, John Edward	*Chicago*
Crane, Meyer	*Chicago*
DeGroot, John Peter	*Chicago*
DeVlieger, Gustaf John	*Chicago*
Dobin, Raymond Alfred	*Chicago*

Dodge, Richard Carvel	*Aurora*
Doyle, Joseph	*Spring Valley*
Dreschler, Henry Christian	*Chicago*
Duzansky, Wm.	*Chicago*
Ehrhart, Roger Urban	*Chicago*
Epstein, Martin	*Chicago*
Esposito, Dominic	*Chicago*
Faigle, Ernest Theodore	*Chicago*
Fetherston, Franklin James	*Chicago*
Finkel, Abraham David	*Chicago*
Fitzel, Harry Arthur	*Chicago*
Ford, George Edward	*Chicago*
Forney, Walter Harvey	*Olney*
Franklin, Joseph	*Chicago*
Frew, Clarence Adrion	*Chicago*
Gabric, Mathew Anthony	*Chicago*
Garmus, Stanley J.	*Cicero*
Gdalman, Louis	*Chicago*
Gentile, Joseph	*Blue Island*
Gershon, Solomon	*Chicago*
Goland, Nathan	*Chicago*
Goldberg, Barney	*Chicago*
Goldberg, Morton Ray	*Chicago*
Goldenson, Herman	*Chicago*
Gordon, Jack	*Chicago*
Gordon, Sidney	*Chicago*
Goslin, Alfred R.	*Streator*
Greenberg, Maurice	*Chicago*
Gruebling, William Julius	*Chicago*
Harlacker, John J.	*Chicago*
Hassen, Erwin	*Chicago*
Hoft, James Paul	*Berwyn*
Hurwitz, Allen	*Syracuse, New York*
Inhoff, Elbert H.	*Pecatonica*
Johnson, Leona A.	*Chicago*
Kaczmarski, Stanley Joseph	*Chicago*
Kadish, Kalman	*Chicago*
Kahn, Julius I.	*Chicago*
Kaminski, Edward Waclaw	*Chicago*
Kanter, Maurice	*Chicago*
Kaplan, David	*Chicago*
Kaplovitz, Sol P.	*Chicago*
Kass, Jacob	*Chicago*
Katra, Adolph	*Chicago*
Kaveney, Francis Joseph	*Chicago*
Keating, Edward F.	*Joliet*
Kelch, Alfred Paul	*Decatur*
Kramarczyk, Walter Andrew	*Chicago*
Krueger, Marvin Henry	*Forest Park*
Lacey, Herbert John	*Chicago*
Laegeler, Charles Bach	*Highland Park*

Laegeler, Lester	*Highland Park*
Levenson, David H.	*Chicago*
Liberman, Jacob	*Chicago*
Lippman, David	*Chicago*
Lipschutz, Paul Harold	*Chicago*
Long, Glenn A.	*Joliet*
Lupian, Josefina	*Chicago*
McClintock, Thomas	*Herrin*
McKee, Will	*Joliet*
Mannaberg, Robert Sigmund	*Chicago*
Marcoff, Benjamin	*Chicago*
Mathews, Kate S.	*Evanston*
Meilach, Joseph S.	*Chicago*
Mendelsohn, Morris Max	*Chicago*
Miastowski, Edward E.	*Chicago*
Michelini, Ralph John	*Evanston*
Miller, Carl	*Chicago*
Morgan, Max	*Chicago*
Nitzberg, Robert H.	*Chicago*
Norris, Emmet Newton	*Effingham*
Nowak, Albert	*Chicago*
Nowak, Edward	*Chicago*
Okonski, Anthony John	*Chicago*
Patkes, Joseph A.	*Chicago*
Perdenza, Joseph	*Chicago*
Picker, Hershel	*Assumption*
Pinta, Edward Francis	*Chicago*
Pippenger, Howard Francis	*Chicago*
Plesher, George Joseph	*Chicago*
Reisler, Irving G.	*Chicago*
Rezabek, Louis Wm.	*Cicero*
Riccio, Daniel Joseph	*Chicago*
Ritt, Julius	*Joliet*
Ritzlin, Philip	*Chicago*
Rosen, Harry	*Chicago*
Rosen, Manuel	*Chicago*
Rosenberg, Albert	*Chicago*
Roth, Irving	*Chicago*
Rywniak, Cornelia Harriet	*Chicago*
Sachs, Morris Robert	*Chicago*
Sager, Edward	*Chicago*
Sammons, Chester B.	*Springfield*
Sax, Bernard	*Chicago*
Schaeffer, David	*Chicago*
Scheffel, Louis	*Chicago*
Schneider, Joseph	*Chicago*
Smith, Calvin Lamar	*Chicago*
Sojat, Frank A.	*Chicago*
Sonshine, Reuben Abraham	*Chicago*
Spatny, Myles	*Chicago*
Stangle, Leo	*Chicago*

Starulis, Frances	*Chicago*
Stephens, Howard Gregory	*Rushville*
Stopper, Louis Peter	*Chicago*
Susman, Louis Aaron	*Chicago*
Swartz, Harvey J.	*Chicago*
Tanny, Michael	*Chicago*
Taylor, Samuel	*Chicago*
Teitelbaum, Louis S.	*Chicago*
Tepper, Frank	*Chicago*
Thornton, Irwin Stanley	*Chicago*
Triscinzzi, Victor	*Chicago*
Trueheart, William	*Chicago*
Valentino, Anthony	*Chicago*
Volkel, Clarence Henry	*Moline*
VonDrasek, John	*Brookfield*
Wallace, Harry Edward	*Chicago*
Warning, John	*Chicago*
Waytz, Max	*Chicago*
Weinberg, Isadore	*Chicago*
Weinper, Leo Millard	*Chicago*
Weinstein, William Harry	*South Haven, Michigan*
Weiss, Fred Edelbert	*Chicago*
Weissman, Paul	*Chicago*
Wilson, Vera Irene	*Chicago*
Wilson, Yoland B.	*Ft. Wayne, Indiana*
Wong, Henry	*Chicago*
Zavrel, Emil Frank	*Chicago*
Zfaney, Morris	*Chicago*
Ziman, Philip	*Chicago*

SPECIAL

Baer, Harold	*New Castle, Pennsylvania*

UNCLASSIFIED

Oliffe, Marie	*Chicago*

THE UNIVERSITY OF ILLINOIS

THE STATE UNIVERSITY

Urbana

Harry Woodburn Chase, Ph.D., LL.D., President

THE UNIVERSITY INCLUDES THE FOLLOWING DEPARTMENTS:

The Graduate School

The College of Liberal Arts and Sciences (Curricula: General with majors, in the Humanities and the Sciences; Chemistry and Chemical Engineering; Pre-legal, Pre-medical, Pre-dental, and Pre-journalism; Home Economics, and Applied Optics)

The College of Commerce and Business Administration (Curricula: General Business, Banking and Finance, Insurance, Accountancy, Railway Administration, Railway Transportation, Industrial Administration, Foreign Commerce, Commercial Teaching, Trade and Civic Secretarial Service, Public Utilities, Commerce and Law)

The College of Engineering (Curricula: Architecture, Ceramics, Architectural, Ceramic, Civil, Electrical, Gas, General, Mechanical, Mining, Railway Civil, Railway Electrical, and Railway Mechanical Engineering; Engineering Physics)

The College of Agriculture (Curricula: General Agriculture; Floriculture; Home Economics; Landscape Architecture; Smith-Hughes—in conjunction with the College of Education)

The College of Education (Curricula: Two year, prescribing junior standing for admission—General Education, Smith-Hughes Agriculture, Smith-Hughes Home Economics, Public School Music; Four year, admitting from the high school—Industrial Education, Athletic Coaching and Physical Education for Men

The University High School is the practice school of the College of Education)

The School of Music (Four-year curriculum)

The School of Journalism (Two-year curriculum, prescribing junior standing for admission)

The College of Law (Three-year curriculum based on three years of college work at the University of Illinois, or a bachelor's degree if pre-law work is taken elsewhere)

The Library School (One-year curriculum for college graduates leading to Bachelor of Science; a second year in the Graduate School, leading to the degree of Master of Science)

The College of Medicine (in Chicago)

The College of Dentistry (in Chicago)

The School of Pharmacy (in Chicago)

The Summer Session (eight weeks)

Experiment Stations and Scientific Bureaus: U. S. Agricultural Experiment Station; Engineering Experiment Station; State Natural History Survey; State Water Survey; State Geological Survey; Bureau of Educational Research.

The Library collections contain (May 1, 1930) 836,496 volumes and 221,800 pamphlets.

For catalogs and information address THE REGISTRAR
Urbana, Illinois

THE UNIVERSITY OF ILLINOIS

COLLEGE OF DENTISTRY

1838 West Harrison Street, Chicago
Opposite the Cook County Hospital

Full course of instruction leading to the degree of Doctor of Dental Surgery. Four-year curriculum. Fifteen units from an accredited high school for admission, and two years in an accredited college or university with the following prescribed distribution:

English	6 semester hours
Chemistry (including not less than four semester hours of qualitative analysis)	8 semester hours
Biology or physics (physics must be presented if it has not been taken in the high school)	6 semester hours
Electives	40 semester hours
Total	60 semester hours

For further information address

The Dean, College of Dentistry, University of Illinois
1838 West Harrison Street, Chicago, Illinois

THE UNIVERSITY OF ILLINOIS

COLLEGE OF MEDICINE

College term begins October 6, 1930. Entrance requirements: fifteen units of work from an accredited high school and two years' work in a recognized college or university, comprising not less than sixty semester hours, including prescribed subjects.

Five-year curriculum (including one year of interne service in an approved hospital) leading up to the degree of Doctor of Medicine. Degree of Bachelor of Science conferred at the end of the second year in medicine in accordance with conditions set forth in catalog. For full information, address Secretary, College of Medicine, University of Illinois, 508 South Honore Street, Chicago.

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ur times a year in the months of March, June, July and August, at Chicago, Ill.

VOL. XVII JULY, 1931 No. 3

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UNIVERSITY OF ILLINOIS

SCHOOL of PHARMACY

1931-32

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

THE UNIVERSITY OF ILLINOIS

THE STATE UNIVERSITY

Urbana

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The College of Engineering (Curricula: Architecture, Ceramics, Architectural, Ceramic, Civil, Electrical, Gas, General, Mechanical, Mining, Railway Civil, Railway Electrical, and Railway Mechanical Engineering; Engineering Physics)

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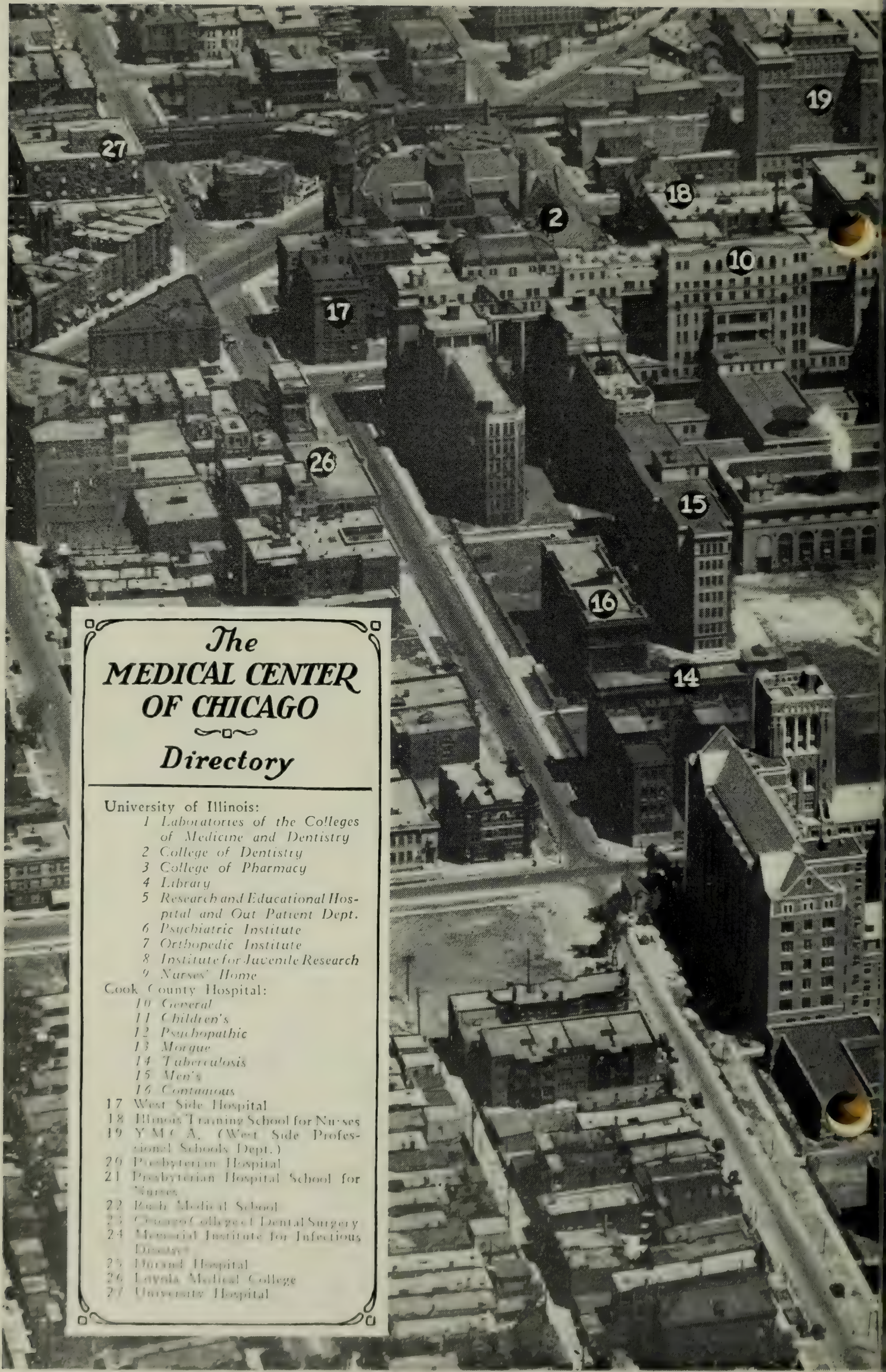


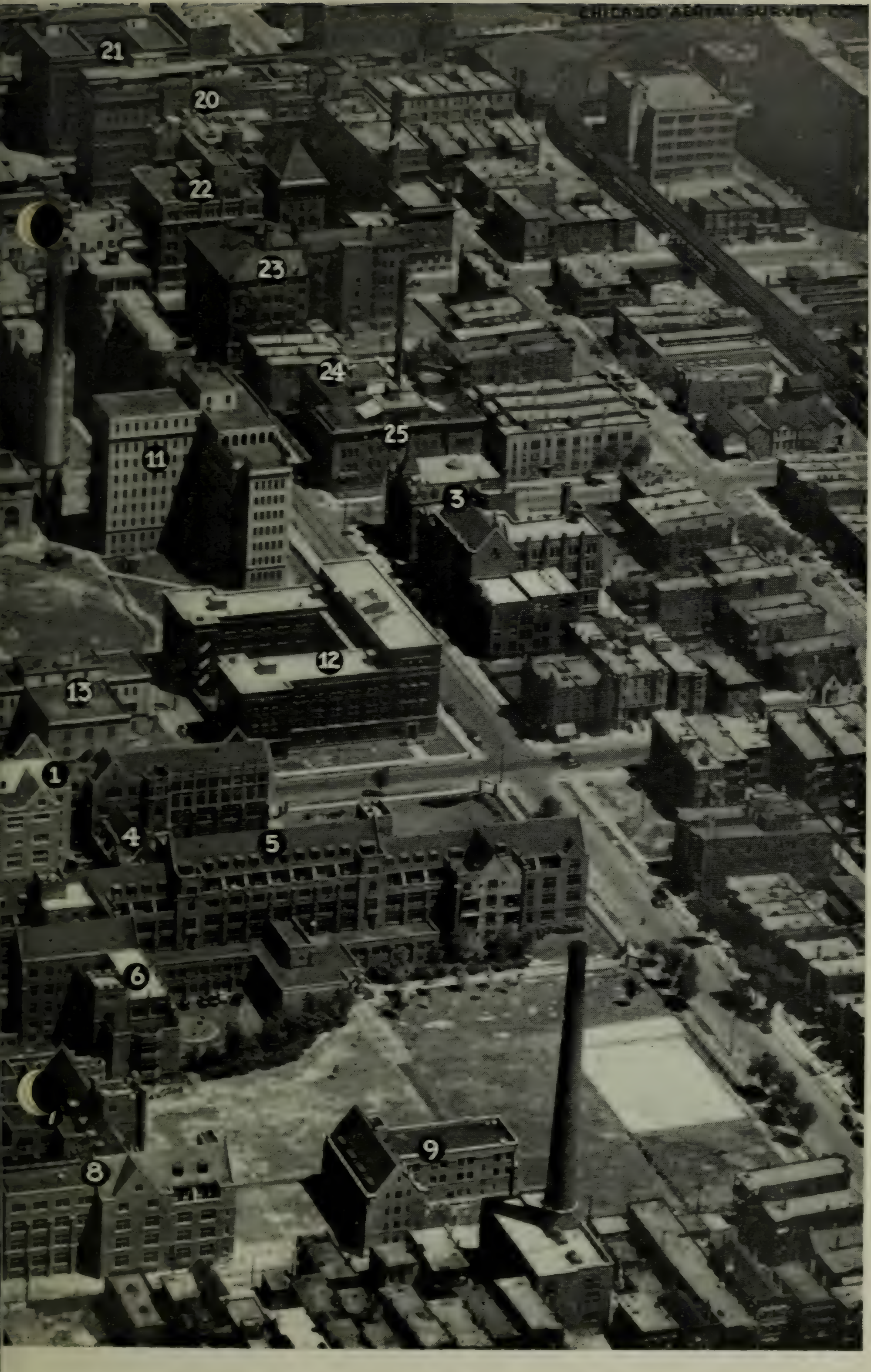
The MEDICAL CENTER OF CHICAGO

Directory

University of Illinois:
  - *1 Laboratories of the Colleges of Medicine and Dentistry*
  - *2 College of Dentistry*
  - *3 College of Pharmacy*
  - *4 Library*
  - *5 Research and Educational Hospital and Out Patient Dept.*
  - *6 Psychiatric Institute*
  - *7 Orthopedic Institute*
  - *8 Institute for Juvenile Research*
  - *9 Nurses' Home*

Cook County Hospital:
  - *10 General*
  - *11 Children's*
  - *12 Psychopathic*
  - *13 Morgue*
  - *14 Tuberculosis*
  - *15 Men's*
  - *16 Contagious*

17 West Side Hospital
18 Illinois Training School for Nurses
19 Y.M.C.A. (West Side Professional Schools Dept.)
20 Presbyterian Hospital
21 Presbyterian Hospital School for Nurses
22 Rush Medical School
23 Chicago College of Dental Surgery
24 Memorial Institute for Infectious Diseases
25 Durand Hospital
26 Loyola Medical College
27 University Hospital



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Seventy-Second Annual Announcement

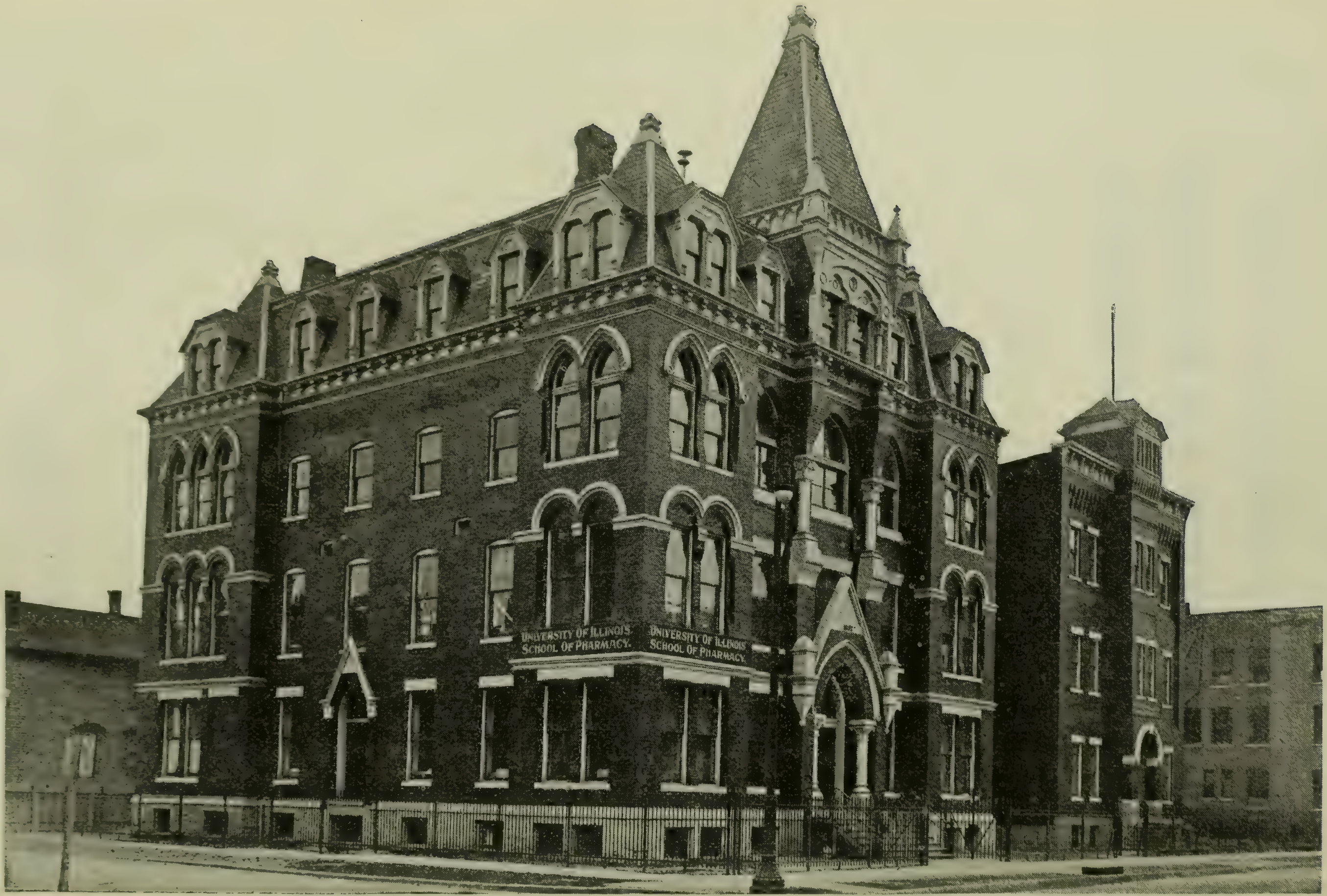
UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY

(Chicago College of Pharmacy)

WOOD AND FLOURNOY STREETS
CHICAGO, ILLINOIS

REGISTER FOR 1930-31
SESSION OF 1931-32

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO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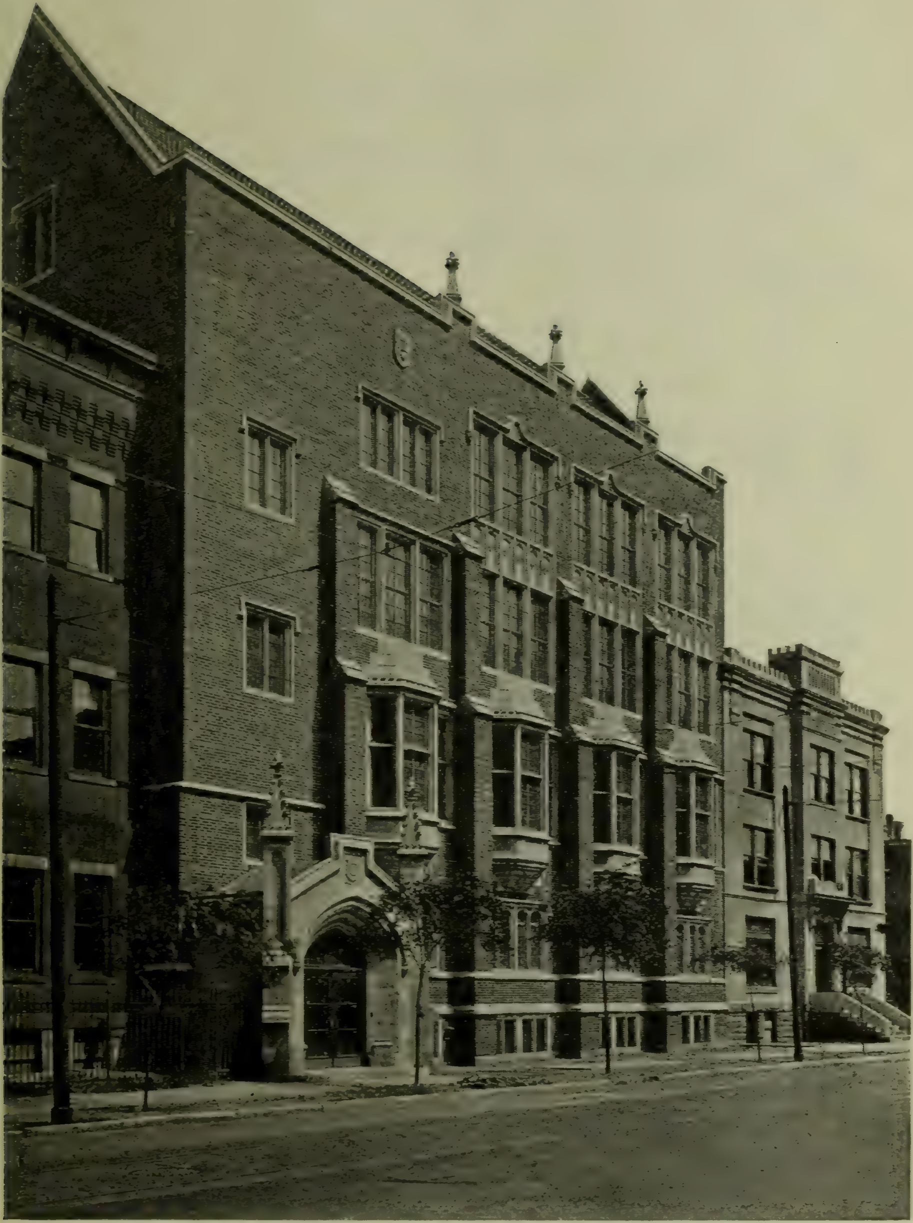
THE NORTH BUILDINGS



THE NEW BUILDING AND THE SOUTH BUILDING

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The Governor of Illinois

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The Superintendent of Public Instruction

Hon. Francis G. Blair	*Springfield*

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Mrs. Helen M. Grigsby	*Pittsfield*
William L. Noble	*31 N. State St., Chicago*

(*Term 1929-1935*)

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Mrs. Marjorie R. Hopkins	*1530 N. State Parkway, Chicago*
Merle J. Trees	*37 W. Van Buren Street, Chicago*

(*Term 1931-1937*)

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Edward E. Barrett	*400 N. Michigan Avenue, Chicago*
Walter W. Williams	*Benton*

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Mrs. Marjorie R. Hopkins
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Advisory Board to the School of Pharmacy

J. F. Shreve, Jacksonville
Leo L. Mrazek, Chicago
John H. Harsch, Peoria
Fred W. Rauth, Springfield
Byron Armstrong, Jacksonville

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1931/32

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1931-32

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WILLIAM BAKER DAY, Ph.G., Pharm.M., *Dean*
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COMMITTEE ON DISCIPLINE FOR THE CHICAGO PROFESSIONAL SCHOOLS:
DEAN DAY, DEAN DAVIS (*Chairman*), DEAN NOYES

FACULTY—1930-31

Harry Woodburn Chase, Ph.D., LL.D., *President of the University*

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Charles Wildman Clarke, B.S., M.S., *Associate in Chemistry.*

Sherman William Morrison, Ph.C., B.S., M.S., *Associate in Pharmacy.*

James Tobias Groot, B.S., M.D., *Lecturer in Physiology.*

Lewis Elbert Martin, Ph.G., *Instructor in Pharmacy.*

Herbert Martin Emig, Ph.G., B.S., M.S., *Instructor in Pharmacy.*

Samuel Shkolnik, Ph.G., LL.B., LL.M., *Instructor in Pharmacy.*

John August Dorjahn, Ph.G., *Instructor in Botany and Materia Medica.*

Esther Meyer, Ph.G., B.S., *Instructor in Bacteriology.*

Paul David Carpenter, Ph.G., B.S., *Instructor in Botany and Materia Medica.*

Ray Arthur Patelski, B.S., *Instructor in Chemistry.*

Joseph Charles Ocenasek, Ph.G., *Assistant in Pharmacy.*

Rebecca Rosenblum, Ph.G., *Assistant in Chemistry.*

Margaret Catherine Gallagher, Ph.C., B.S., M.S., *Assistant in Botany and Materia Medica.*

Reuben Max Reifler, Ph.G., *Assistant in Pharmacy.*

Ernst Rudolph Kirch, Ph.C., B.S., *Assistant in Chemistry.*

Lawrence Templeton, B.S., *Assistant in Pharmacy.*

Lorenz Blough Eyer, Ph.C., *Assistant in Botany and Materia Medica.*

Vivian Josephine Stuchlik, Ph.G., *Assistant in Botany and Materia Medica.*

Paul Gotfried Soderdahl, Ph.C., B.S., *Assistant in Chemistry.*

Marion Kasbeer, B.S., *Assistant in Chemistry.*

Raymond Sigfrid Adamson, Ph.C., *Assistant in Botany and Materia Medica.*

Bernard Benjamin Brody, Ph.C., *Assistant in Pharmacy.*

Gerston Bruch, Ph.C., *Assistant in Botany and Materia Medica.*

Solomon Gershon, Ph.C., *Assistant in Chemistry.*

Max Waytz, Ph.C., *Assistant in Pharmacy.*

William Robert Collins, Ph.C., *Assistant in Pharmacy.*

CALENDAR

1931-32

FIRST SEMESTER

October 5, Monday, 8 a. m.-5 p. m.
Registration and payment of fees[1]

October 6, Tuesday, 9 a. m.
Instruction begun

November 25, Wednesday, 12 m.
Thanksgiving recess begun

November 30, Monday, 8 a. m.
Instruction resumed

December 22, Tuesday, 5 p. m.
Holiday recess begun

January 4, 1932, Monday, 8 a. m.
Instruction resumed

February 1 to 5, Monday to Friday
Semester Examinations

SECOND SEMESTER

February 8, Monday, 8 a. m.-5 p. m.
Registration and payment of fees

February 9, Tuesday, 8 a. m.
Semester instruction begun

March 24, Thursday, 5 p. m.
Easter recess begun

March 28, Monday, 8 a. m.
Instruction resumed

May 30, Monday
Memorial Day

May 31-June 4, Tuesday-Friday
Final examinations

June 9, Thursday
Alumni Meeting

June 10, Friday
Commencement
Chicago Professional Schools of the University

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[1] Only students who have been matriculated may register. Matriculation of freshmen begins March 1st.

SCHOOL OF PHARMACY

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, the pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the School, the Trustees and officers of the University have the assistance of an Advisory Board of pharmacists nominated by the registered pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the school on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the school the building at 721 South Wood Street formerly occupied by the Institute for Juvenile Research.

LOCATION

The location of the School of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

The Lecture Rooms

There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

THE LABORATORIES

Ten laboratories having a total capacity of 700 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. An equipment of machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

THE LIBRARY

The Library contains over five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

THE MUSEUM

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

THE STUDENTS' ROOMS

Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the School of Pharmacy of the University of Illinois are as follows:

1. Age

The applicant must be at least seventeen years of age.

2. Non-Illinois Students

All applicants for admission to the School of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the school or college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such school or college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, *e. g.,* in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. High-School Graduation

A candidate for admission *by certificate* must be a graduate of an accredited high school or other accredited school, with fifteen units[1] in acceptable subjects. By acceptable subjects are meant the subjects included in Lists A, B, and C below; not more than four units to be chosen from list C.

An applicant who *has attended but who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to five units:

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

4. Prescribed Subjects

The fifteen units required must include the following subjects, which are *prescribed* for admission to all departments of the University of Illinois:

List A

English	3 units
Algebra	1 unit
Plane geometry	1 unit
Total	5 units

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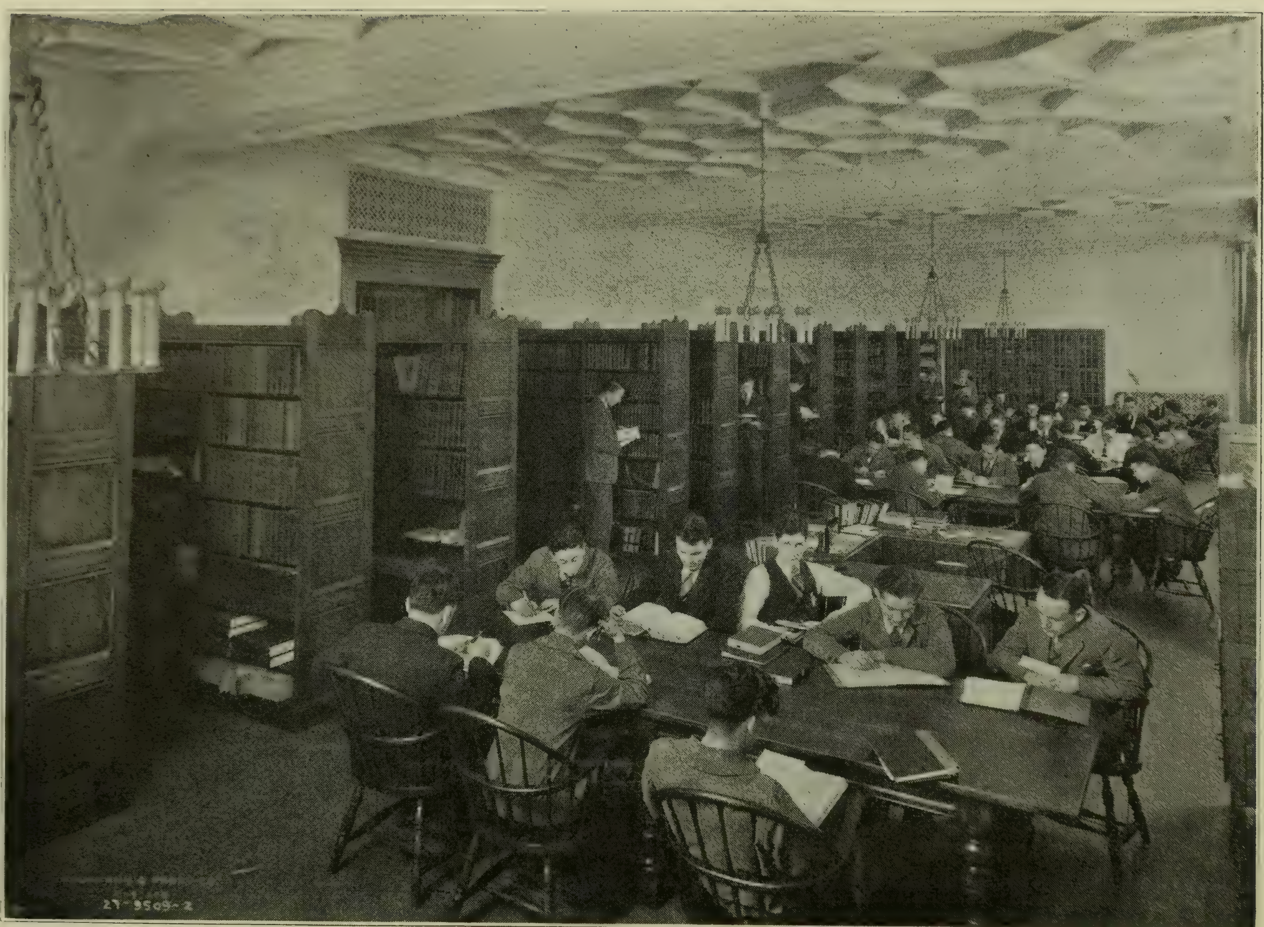
[1] By a unit of high-school or academy work is meant a year's work in a single subject, it being understood that the school year shall not be less than 36 weeks in length, that classes shall recite five times a week, that the recitation period shall not be less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, fifteen units represent approximately four years of high-school work.



LIBRARY

5. Electives

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

List B	*Units*
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
[illegible]	1
[illegible]	½–1
[illegible]	½
[illegible]	½
[illegible]	1–4
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	1–2
[illegible]	1–2

[illegible] bove or from

[illegible]	½
[illegible]	½–1
[illegible]	1–3
[illegible]	1
[illegible]	½
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[illegible]	½
[illegible]	1–3
[illegible]	½–1
[illegible]	½–1
[illegible]	1–2
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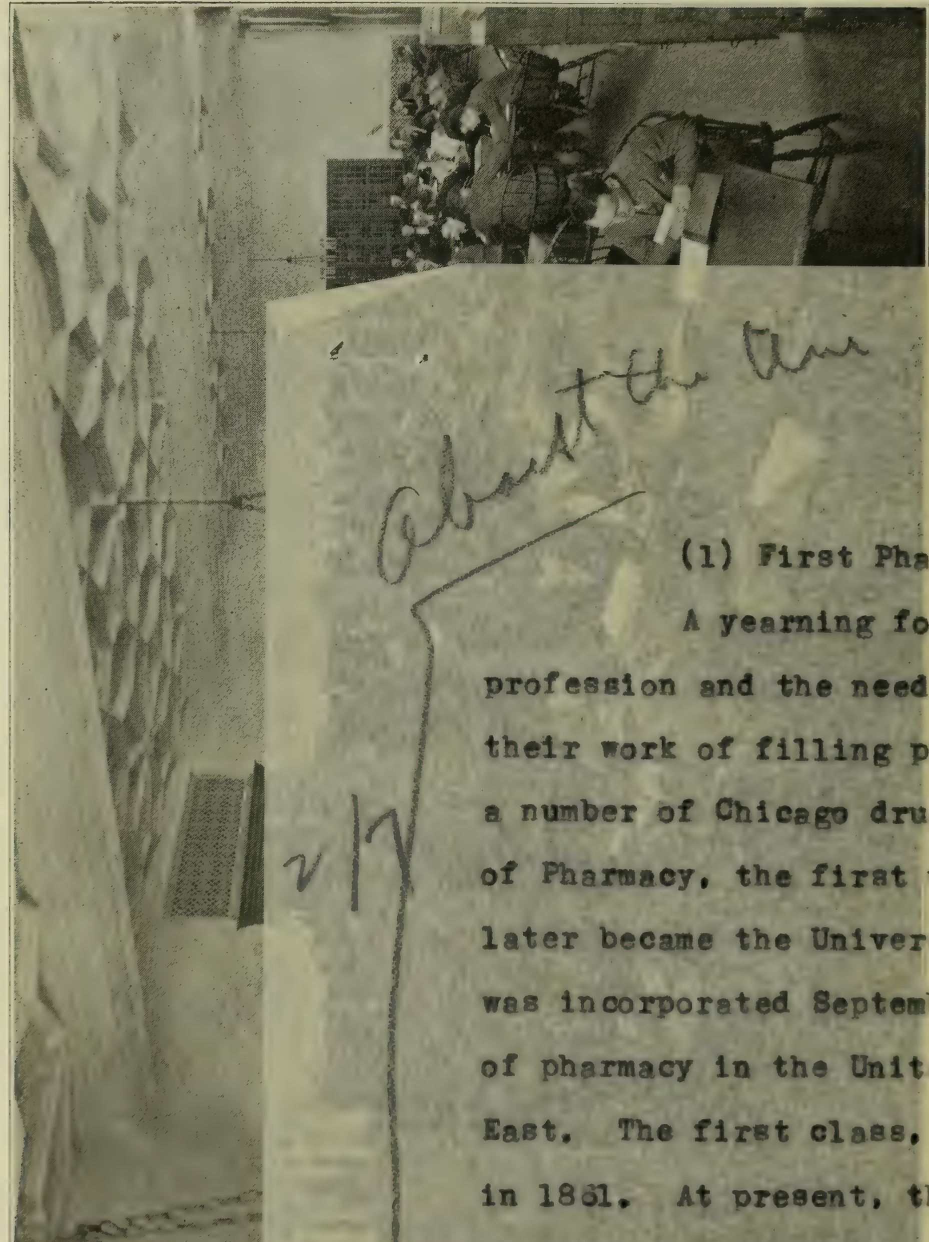

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5. Electives

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

List B	*Units*
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
[illegible]	1–3
[illegible]	1
[illegible]	½–1
[illegible]	½
[illegible]	½
[illegible]	1–4
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	½–1
[illegible]	1–2
[illegible]	1–2

[illegible] above or from

[illegible]	½
[illegible]	½–1
[illegible]	1–3
[illegible]	1
[illegible]	½
[illegible] ear of	
[illegible]	½
[illegible]	1–3
[illegible]	½–1
[illegible]	½–1
[illegible]	1–2
[illegible]	½–1
[illegible]	1–2
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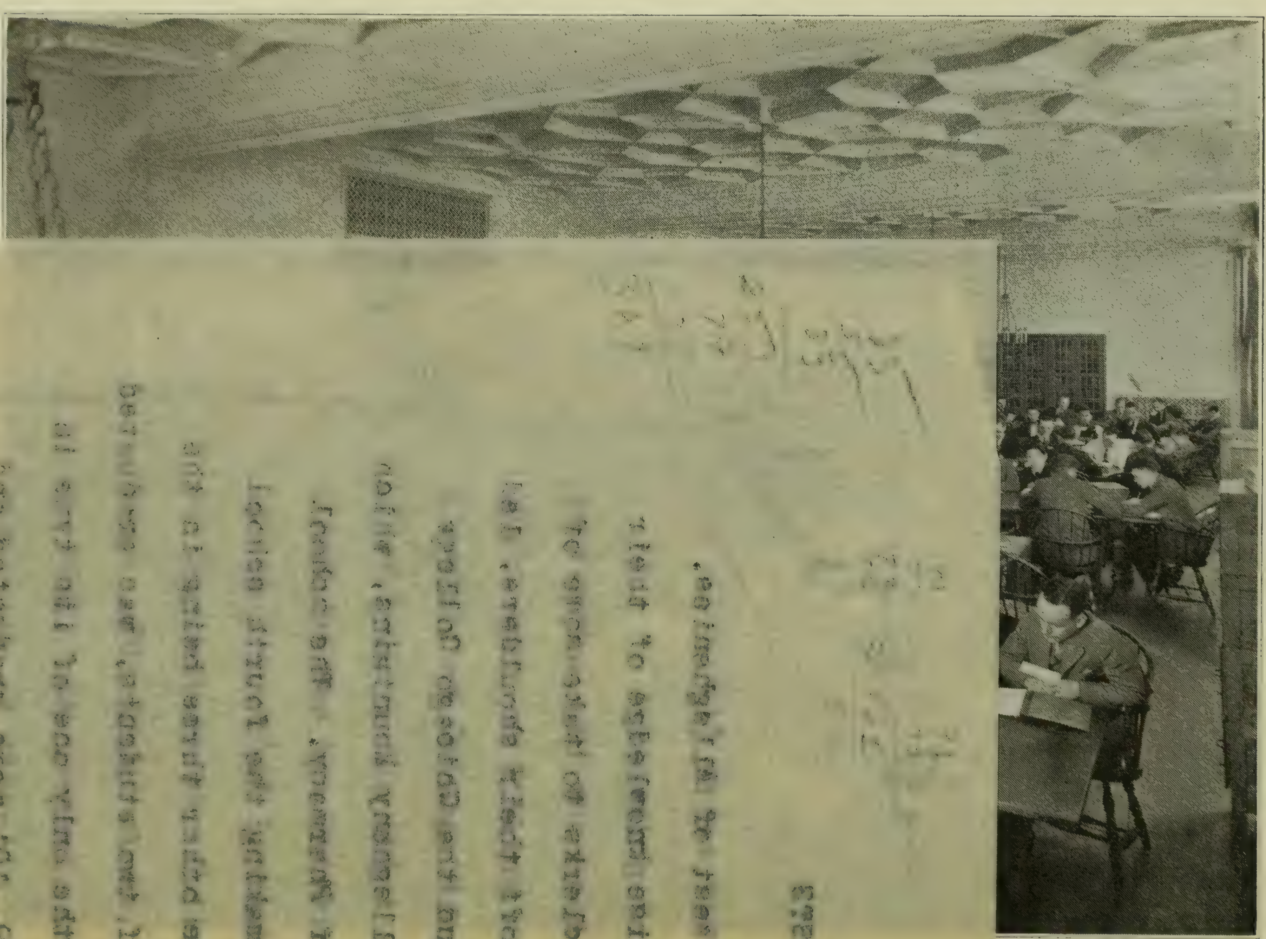

5. Electives

The remaining ten units must be selected from Lists B and C, which follow. *Not more than four units may be chosen from List C.*

List B	*Units*
Latin	1–4
Greek	1–4
French	1–4
German	1–4
Spanish	1–4
Italian	1–3
English (4th unit)	1
Advanced algebra	½–1
Solid geometry	½
Trigonometry	½
History[1]	1–4
Civics	½–1
Economics and economic history	½–1
Commercial geography	½–1
Physiography	½–1
Physiology	½–1
Zoology	½–1
Botany	½–1
Physics	1–2
Chemistry	1–2

6. Additional Electives: List C

The remaining four units may be chosen either from List B above or from List C:

List C[2]

Astronomy	½
Geology	½–1
Agriculture	1–3
Bookkeeping	1
Business law	½
Commercial arithmetic (accepted only when preceded by one year of work in high-school mathematics)	½
Home economics	1–3
Drawing, art and design	½–1
Drawing, mechanical	½–1
Manual training[3] or farm mechanics	1–2
General science	½–1
Foreign language (other than those of List B)	1–2
Music	1–2
Shorthand and typewriting (when offered together)	1–2
Typewriting (when offered alone in double periods)	1

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

How the Entrance Requirements May Be Met

The high-school requirement may be satisfied by certificate or by examination.

High-School Credits by Certificate

High-school credits will be accepted by certificate from the following sources:

1. From high schools and academies in the state of Illinois which are accredited to the University of Illinois.

2. From schools accredited by the North Central Association of Colleges and Secondary Schools.

3. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.

4. From high schools and academies registered by the Regents of the University of the State of New York.

5. From schools approved by the New England College Entrance Certificate Board.

6. From schools accredited by the Southern Association of Colleges and Secondary Schools.

7. From the state teachers' colleges of Illinois and other teachers' colleges having equal requirements for graduation.

High-School Credits by Examination

High-School credits may be made by examination:

1. In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.

2. In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in Chicago in March, June, August, September, and December of each year. A program of these entrance examinations will be sent on request.

3. In the examinations conducted in June of each year by the College Entrance Examination Board.

4. In the examinations conducted by the Regents of the University of the State of New York.

New Requirements in 1932

Effective for students entering in September, 1932, and thereafter the School of Pharmacy of the University of Illinois in Chicago will cease to admit students directly from the secondary schools and will require for admission one year of work in a recognized college or university comprising not less than 30 semester hours, exclusive of military science, physical education, and hygiene. The work of this year must include prescribed subjects as follows:

Subject	*Semester Hours*
Chemistry (preferably including qualitative analysis)	8-10
English	6
Mathematics (including Algebra and Trigonometry)	5

The remaining hours, sufficient to make a total of 30, exclusive of military, physical training, and hygiene, may be made up from electives subject to the following restrictions:

(1) No work in Chemistry in addition to the prescribed work, as listed above, may be included.

(2) No course in subjects offered in the School of Pharmacy (including botany, physiology, and bacteriology) may be elected.

7. STATE QUALIFYING CERTIFICATE

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the School of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

THE DEGREE OF PHARMACEUTICAL CHEMIST

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

REQUIREMENT OF C IN THREE-FOURTHS OF WORK FOR THE DEGREE

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

THE THREE YEAR CURRICULUM

This course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Dr. GROOT, Miss MEYER, Mr. DORJAHN, Mr. CARPENTER, Miss GALLAGHER, Miss STUCHLIK, Mr. ADAMSON, Mr. EYER, Mr. BRUCH

FIRST YEAR

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor DAY, Professor GATHERCOAL, Mr. CARPENTER, Mr. ADAMSON

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. GROOT

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Professor GATHERCOAL, Mr. CARPENTER, Mr. ADAMSON

SECOND YEAR

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor DAY, Mr. DORJAHN, Miss GALLAGHER

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Mr. DORJAHN, Mr. BRUCH

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor DAY, Mr. DORJAHN, Miss STUCHLIK

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Mr. DORJAHN, Mr. BRUCH

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. EYER

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.
Professor DAY, Mr. DORJAHN, Miss MEYER, Miss GALLAGHER

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and microchemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester. Miss GALLAGHER, Miss STUCHLIK

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER,
Mr. PATELSKI, Miss ROSENBLUM, Mr. KIRCH, Mr. SODERDAHL,
Miss KASBEER, Mr. GERSHON

FIRST YEAR

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester. Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U. S. P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.
Mr. CLARKE, Miss ROSENBLUM, Mr. GERSHON

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER, Mr. GERSHON

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. GERSHON

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER, Mr. GERSHON

THIRD YEAR

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER

PHARMACY

Professor SNOW, Assistant Professor TERRY, Mr. MARTIN,
Mr. MORRISON, Mr. EMIG, Mr. OCENASEK, Mr. SHKOLNIK,
Mr. WAYTZ, Mr. REIFLER, Mr. TEMPLETON, Mr. BRODY

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

SECOND YEAR

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Mr. Martin, Mr. Ocenasek

Third Year

10. *Operative Pharmacy.*—Three lectures and recitations and two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) First semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Waytz

11. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor Terry, Mr. Emig, Mr. Waytz

12. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) Second semester.

Assistant Professor Terry, Mr. Emig, Mr. Waytz

13. *Advanced Dispensing.*—Three lectures and recitations, two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) Second semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Waytz

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years.

Mr. Morrison, Mr. Shkolnik, Mr. Collins

SUMMARY OF THE THREE-YEAR CURRICULUM

FIRST YEAR

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Laboratory		
Pharmacy 1, 2 & 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Totals for the Semester	14	10	24	17

Second Semester

Pharmacy 4 & 5	4	3	7	5
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Totals for the Semester	12	13	25	16

SECOND YEAR

First Semester

Pharmacy 6 & 7	4	6	10	6
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Totals for the Semester	13	19	32	19

Second Semester

Pharmacy 8 & 9	4	6	10	6
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Totals for the Semester	13	19	32	19

THIRD YEAR

First Semester

Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Totals for the Semester	10	23	33	17

Second Semester

Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Dispensary	..	3	3	1
Totals for the Semester	8	23	31	15

Total Semester hours in three years....103

Average number of clock hours a week a semester.... 29

THE FOUR YEAR CURRICULUM

Announcement

Effective for students entering in September, 1932, and thereafter the School of Pharmacy will cease to admit students directly from the secondary schools and will require for admission one year of work in a recognized college or university comprising not less than 30 semester hours, exclusive of military science, physical education, and hygiene. The work of this year must include prescribed subjects as follows:

Subject	*Semester Hours*
Chemistry (preferably including qualitative analysis)	8-10
English	6
Mathematics (including Algebra and Trigonometry)	5

The remaining hours, sufficient to make a total of 30, exclusive of military, physical training, and hygiene, may be made up from electives subject to the following restrictions:

(1) No work in Chemistry in addition to the prescribed work, as listed above, may be included.

(2) No course in subjects offered in the School of Pharmacy (including botany, physiology, and bacteriology) may be elected.

This year of college work must have been preceded by graduation from an accredited secondary school, the work therein to have included the subjects at present prescribed for admission to the School of Pharmacy. (See pages 11 and 13.)

The present degree of Pharmaceutical Chemist will be discontinued and students who enter on the basis of the new requirements, upon satisfying the requirements of the curriculum, will receive the degree of Bachelor of Science in Pharmacy.

THE FOUR YEAR CURRICULUM

FIRST YEAR

(Offered in the College of Liberal Arts and Sciences, at Urbana)

First Semester	Hours	*Second Semester*	Hours
Physical Education	½ or 1	Physical Education	½ or 1
Hygiene 1 or 2	½	Hygiene 3 or 4	½
Military (for men)	1	Military (for men)	1
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-2	Electives[1]	5
Total	17 or 16½	Total	17 or 16½

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. Botany, Physiology and additional courses in chemistry are *not* accepted.

SUMMARY OF THE LAST THREE YEARS OF THE FOUR-YEAR CURRICULUM

Which will be offered in the School of Pharmacy in Chicago, beginning in 1932.

	Clock hours each week Lec. & Rec.	Clock hours each week Laboratory	Total clock hours	Total semester hours
SECOND YEAR				
First Semester				
Pharmacy 1, 2 & 3	7	3	10	8
+Chemistry 4	2	6	8	4
Materia Medica & Botany 1	3	3	6	4
Total for semester	12	12	24	16
Second Semester				
+Pharmacy 4 & 5	3	4	7	4
+Chemistry 6	4	4	8	5
+Materia Medica & Botany 3	2	6	8	4
+Physics (new)	3	3	6	4
Total for semester	12	17	29	17
THIRD YEAR				
First Semester				
Pharmacy 6 & 7	4	6	10	6
+Chemistry 8	3	4	7	4
+Materia Medica & Botany 5	2	6	8	4
+Physics (new)	3	3	6	4
Total for semester	12	19	31	18
Second Semester				
Pharmacy 8 & 9	4	6	10	6
+Chemistry 5	3	6	9	5
+Materia Medica & Botany 7	2	6	8	4
Materia Medica & Botany 2	3	0	3	3
Total for semester	12	18	30	18
FOURTH YEAR				
First Semester				
Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Total for semester	10	23	33	17
Second Semester				
+Business Law (new)	1	0	1	1
Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9	3	0	3	3
+Materia Medica & Botany 10	1	6	7	3
Dispensary	0	3	3	1
Total for semester	10	23	33	17

(Courses marked thus + are either changed or new as compared with those described in the three-year course, pages 17 to 21.)

Total semester hours in the three years....103

Average number of clock hours of classes per week, per semester....... 30

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the School of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a school of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a school of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

THE AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY

This School holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

WOMAN'S LOAN FUND

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund. With accumulated interest the total amount in the fund is $667.12. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the School. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a freshman student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the School of Pharmacy and who attains in all the work done in the courses offered by the School and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo. L. Mrazek, an alumnus of the School, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the School, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the School.

PEDIGO PRIZE.—Mr. Lee M. Pedigo, an alumnus of the School, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumnus of the School, offers a prize of twenty-five dollars to the senior student who attains the highest average in Materia Medica.

FEES AND EXPENSES

ILLINOIS STUDENTS

	First Year		*Second Year*		*Third Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]	20.00	18.00	27.00	27.00	35.00	31.00
Diploma fee	.....	.....	.....	.....	.....	10.00
	$80.00	$68.00	$77.00	$77.00	$85.00	$91.00

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

NON-ILLINOIS STUDENTS

Non-Illinois Students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the School within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the School. Information regarding these will be supplied by the Y. M. C. A. secretary.

The new ten-story Y. M. C. A. building, located just two blocks north of the school, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

CHICAGO BRANCH OF THE A. PH. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the School of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

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[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

STATE REGISTRATION

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this school is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Exemption from the graduation requirement is provided for such registered apprentices and assistant pharmacists who were registered by the Board of Pharmacy prior to July 1, 1917.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

The Dean
715 South Wood St., Chicago, Ill.

University of Illinois School of Pharmacy

Schedule 1930-1931 FRESHMAN YEAR First Semester

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Arithmetic 3 Recitation Section 2-R-142 Section 3-R-213 Section 4-R-141	9-10 a. m. Arithmetic 3 Recitation Section 1-R-334 Section 2-R-142	9-10 a. m. Arithmetic 3 Recitation Section 1-R-334 Botany 1 Recitation Section 3-R-213 Section 4-R-141	9-10 a. m. Arithmetic 3 Recitation Section 3-R-213 Section 4-R-141 Pharmacy 1 Recitation Section 2 Room 334	9-10 a. m. Pharmacy 1 Recitation Section 1-R-334 Chemistry-1a Recitation Section 3-R-213 Section 4-R-141
10-11 a. m. Pharmacy 1 Lecture R-413	10-11 a. m. Chemistry 1a Recitation Section 1-R-334 Section 2-R-142	10-11 a. m. Pharmacy 1 Lecture R-413	10-11 a. m. Pharmacy 1 Recitation Section 3-R-213 Section 4-R-141 Botany 1 Recitation Section 1-R-334 Section 2-R-142	10-11 a. m. Arithmetic 3 Recitation Section 1-R-334 Section 2-R-142 Section 3-R-203 Section 4-R-141
11 a. m.-12 m. Botany 1 Lecture R-413	11 a. m.-12 m. Chemistry 1a Lecture R-340	11 a. m.-12 m. Botany 1 Lecture R-413	11 a. m.-12 m. Chemistry 1a Lecture R-340	11 a. m.-12 m. Chemistry 1a Lecture R-340
1-2 p. m. Chemistry 1a Section 1 Room 334	1-2 p. m. Chemistry 1a Section 3 Room 334	1-2 p. m. Chemistry 1a Section 2 Room 334	1-2 p. m. Chemistry 1a Section 4 Room 334	1-5 p. m. Reserved for Examinations
2-5 p. m. Chemistry 1a Laboratory Section 1 R-331	2-5 p. m. Chemistry 1a Laboratory Section 3 R-331	2-5 p. m. Chemistry 1a Laboratory Section 2 R-331	2-5 p. m. Chemistry 1a Laboratory Section 4 R-331	
1-2 p. m. Pharmacy 2 Recitation Section 2 R-120	1-2 p. m. Pharmacy 2 Recitation Section 1 R-120	1-2 p. m. Pharmacy 2 Recitation Section 4 R-120	1-2 p. m. Pharmacy 2 Recitation Section 3 R-120	
2-5 p. m. Pharmacy 2 Laboratory Section 2 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 1 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 4 R-120	2-5 p. m. Pharmacy 2 Laboratory Section 3 R-120	
1-4 p. m. Botany 1 Laboratory Section 3 R-432	1-4 p. m. Botany 1 Laboratory Section 4 R-432	1-4 p. m. Botany 1 Laboratory Section 1 R-432	1-4 p. m. Botany 1 Laboratory Section 2 R-432	

Note: In room numbers, the first digit indicates the floor, the second digit the building, counting from the north. Thus Room 413 is located on the 4th floor of the 1st (north) building.

University of Illinois School of Pharmacy

Schedule 1930-1931 **JUNIOR YEAR** **First Semester**

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9-10 a. m. Pharmacy 6 Recitation Section 3-R-334	9-10 a. m. Chemistry 6 Recitation Section 2-R-141 Section 3-R-213	9-10 a. m. Chemistry 6 Recitation Section 1-R-142	9-10 a. m. Materia Medica 4 Recitation Section 3-R-142	
				9 a. m.-12 m. Pharmacognosy 5 Laboratory Section 2 Room 113 9-11 a. m. Chemistry 5 Laboratory Section 1 Room 220 9-10 a. m. Pharmacy 7 Laboratory Section 3 Room 142
10-11 a. m. Chemistry 6 Lecture Room 340	10-11 a. m. Pharmacy 6 Lecture Room 413	10-11 a. m. Pharmacy 6 Recitation Section 1-R-141 Section 2-R-142	10-11 a. m. Pharmacy 6 Lecture Room 413	10 a. m.-12 m. Pharmacy 7 Laboratory Section 3 Room 231
11 a. m.-12 m. Materia Medica 4 Recitation Section 1-R-141 Section 2-R-142	11 a. m.-12 m. Materia Medica 4 Lecture Room 413	11 a. m.-12 m. Chemistry 6 Lecture Room 340	11 a. m.-12 m. Materia Medica 4 Lecture Room 413	11 a. m.-12 m. Chemistry 5 Section 1 Rooms 213 and 334
1-2 p. m. Pharmacognosy 5 Recitation Section 1-R-213 Pharmacy 7 Recitation Section 2-R-142	1-2 p. m. Chemistry 5 Lecture Room 340 1-2 p. m. Pharmacy 7 Section 1 Room 142	1-2 p. m. Pharmacognosy 5 Recitation Section 2-R-213 1-2 p. m. Pharmacy 7 Recitation Section 3-R-142	1-2 p. m. Chemistry 5 Lecture Room 340 2-3 p. m. Pharmacy 7 Section 2 Room 142	1-2 p. m. Pharmacy 7 Recitation Section 1-R-142 Pharmacognosy 5 Recitation Section 3-R-213
1-4 p. m. Chemistry 5 Laboratory Section 3-R-320	1-4 p. m. Chemistry 5 Laboratory Section 2 Room 220	1-4 p. m. Chemistry 5 Laboratory Section 1-R-220	2-4 p. m. Chemistry 5 Laboratory Section 3-R-320	1-4 p. m. Chemistry 5 Laboratory Section 2 Room 220
4-5 p. m. Chemistry 5 Section 3 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 2 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 1 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 3 Rooms 213 and 334	4-5 p. m. Chemistry 5 Section 2 Rooms 213 and 334
2-5 p. m. Pharmacognosy 5 Laboratory Section 1-R-113 Pharmacy 7 Laboratory Section 2-R-113	3-5 p. m. Pharmacy 7 Laboratory Section 1-R-231 2-5 p. m. Pharmacognosy 5 Laboratory Section 3-R-113	2-5 p. m. Pharmacognosy 5 Laboratory Section 2-R-113 Pharmacy 7 Laboratory Section 3-R-231	3-5 p. m. Pharmacy 7 Laboratory Section 2-R-231 2-5 p. m. Pharmacognosy 5 Laboratory Section 1-R-113	2-5 p. m. Pharmacy 7 Laboratory Section 1-R-231 Pharmacognosy 5 Laboratory Section 3-R-213

University of Illinois School of Pharmacy

Schedule 1930-31 SENIOR YEAR First Semes

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDA
8-9 a. m. Chemistry 10 Section 1 Rooms 141 and 334		8-9 a. m. Chemistry 10 Section 2 Rooms 141 and 334	8 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		
9 a. m.-12 m. Chemistry 10 Laboratory Section 1-R-431		9 a. m.-12 m. Chemistry 10 Laboratory Section 2-R-431		(First six weeks) 9-10 a. m. Pharmacy 11 Seminar Room 413	
9 a. m.-12 m. Bacteriology 8 Laboratory Section 2-R-215 Pharmacy 10 Laboratory Section 3-R-131	9 a. m.-12 m. Pharmacognosy 10 Laboratory Section 3-R-113 Bacteriology 8 Laboratory Section 1-R-215	9 a. m.-12 m. Pharmacy 10 Laboratory Section 1-R-131	9 a. m.-12 m. Bacteriology 8 Laboratory Section 1-R-215 Pharmacognosy 10 Laboratory Section 3-R-113	(After six weeks) 9-10 a. m. Pharmacy 11 Seminar Section 1-b-R-110	9 a. m.-12 m Bacteriology Laboratory Section 1-R-2
	(After six weeks) 10-11 a. m. Pharmacy 11 Seminar Section 2-a-R-213 Section 2-b-R-141			10-11 a. m. Chemistry 9 Lecture Room 340	
	11 a. m.-12 m. Bacteriology 8 Recitation Section 2-R-213	(After six weeks) 11 a. m.-12 m. Pharmacy 11 Seminar Section 3-b-R-142		11 a. m.-12 m. Pharmacy 10 Lecture Room 413	
(After six weeks) 1-2 p. m. Pharmacy 11 Seminar Section 3-a-R-141	1-2 p. m. Pharmacy 10 Lecture Room 413	1-2 p. m. Bacteriology 8 Recitation Section 1-R-141	1-2 p. m. Bacteriology 8 Lecture Sections 1 & 2 Room 413	1-2 p. m. Bacteriology 8 Lecture Sections 1 & 2 Room 413	
1-2 p. m. Pharmacy 10 Recitation Section 2-R-340		1-2 p. m. Pharmacy 10 Recitation Section 3-R-340	1-2 p. m. Chemistry 10 Section 3 Rooms 141 and 213		
2-5 p. m. Pharmacy 10 Laboratory Section 2-R-131		2-5 p. m. Pharmacy 10 Laboratory Section 3-R-131 Bacteriology 8 Laboratory Section 2-R-215	(After six weeks) 2-3 p. m. Pharmacy 11 Seminar Section 1-a-R-142		
1-5 p. m. Chemistry 10 Laboratory Section 1-R-431		2-3 p. m. Pharmacy 10 Recitation Section 1-R-142	2-5 p. m. Chemistry 10 Laboratory Section 3-R-431	1-5 p. m. Chemistry 10 Laboratory Section 3-R-431	
	2-3 p. m. Chemistry 10 Lecture Room 340				
			2-5 p. m. Pharmacy 10 Laboratory Section 2-R-131	2-5 p. m. Pharmacy 10 Laboratory Section 1-R-131 Bacteriology 8 Laboratory Section 2-R-215	
	3-4 p. m. Chemistry 9 Lecture Room 340				

DEGREES, 1931

Degree of Pharmaceutical Chemist

(Conferred February, 1931)

Ford, George Edward	*Chicago*	
Hurwitz, Allen	*Syracuse, New York*	
Kaczmarski, Stanley Joseph	*Chicago*	
Kanter, Maurice	*Chicago*	
Lippman, David	*Chicago*	
Norris, Emmet N.	*Effingham*	
Nowak, Albert	*Chicago*	
Rosen, Harry	*Chicago*	
Schaeffer, David	*Chicago*	
Weinper, Leo Millard	*Chicago*	
Katra, Adolph	*Chicago*	(Class of 1930)
Rosenberg, Albert	*Chicago*	(Class of 1930)
Taylor, Samuel	*Chicago*	(Class of 1930)

(Conferred June, 1931)

Albrecht, Obed William	*Dakota*
Allen, John Wallace	*Elmhurst*
Anderson, William Francis	*Mears, Michigan*
Bahrij, Stanley Max	*Chicago*
Baker, Florence Marie	*Chicago*
Baker, Homer Uhl	*Morris*
Ballin, Norman Henry	*Chicago*
Barcheski, Clement John	*Chicago*
Barovsky, Carl	*Chicago*
Becker, Garry	*Chicago*
Berlin, Harry	*Chicago*
Beskin, Harry Sidney	*Chicago*
Bidzinski, Zenon Stanley	*Chicago*
Biedka, Marie Henrietta	*Chicago*
Biestek, Paul John	*Chicago*
Blanchette, Lorenzo Gerard	*Bourbonnais*
Blauner, William	*Chicago*
Brachtl, James	*Chicago*
Bregnezer, Henry A.	*Kankakee*
Budny, Jerome Valentine	*Chicago*
Burkhart, Lyle Alfonso	*LaHarpe*
Burns, Clarence William	*Elgin*
Calabrese, Michael Dominick	*Chicago*
Calisoff, Hyman	*Chicago*
Carter, Joseph H.	*Monmouth*
Carter, Royal Lincoln	*Downer's Grove*
Cash, Richard Lyndhurst	*Chicago*
Chidensky, Charles B.	*Chicago*
Chidensky, Jacob	*Chicago*

Cihocki, John E.	*Chicago*
Cinefro, John A.	*Chicago*
Clark, Lewis Buckinghame	*Chicago*
Cline, J. M.	*Birmingham, Alabama*
Cronin, John Edward	*Chicago*
Cunningham, William Lynn	*Lincoln*
Czaja, Walter Joseph	*Chicago*
Darnell, Hubert Melvin	*Peoria*
DeVlieger, Gustaf John	*Chicago*
Dvorak, George James	*Chicago*
Engh, Herbert Theodore	*Chicago*
Engwall, Thor Theodore	*Chicago*
Epstein, Sam	*Chicago*
Fawcett, Charles Theodore	*Princeton*
Fay, Lloyd Joseph	*Watseka*
Filip, Joseph A.	*Berwyn*
Fisher, Sidney Theodore	*Chicago*
Gaberman, Louis	*Chicago*
Gabric, Mathew Anthony	*Chicago*
Gaensslen, Frederika Emily	*Green River, Wyoming*
Gandell, Max	*Chicago*
Geis, Paul Edward	*Dwight*
Giguere, Sister St. Charles	*Kankakee*
Giurato, James Anthony	*Chicago*
Greenberg, Maurice	*Chicago*
Greenberg, William	*Chicago*
Hajicek, Bohumil Joseph	*Berwyn*
Hanson, Cervensel	*Lockport*
Hanson, Otto Andrew	*River Forest*
Horwitz, Harold Aron	*Chicago*
Israelite, Albert	*Chicago*
Jacobson, Emanuel	*Chicago*
Jacobson, Isadore J.	*Chicago*
Jahn, William Otto C.	*Chicago*
Jarecki, Roman A.	*Chicago*
Johnson, Harold G.	*Paxton*
Johnson, Harold Walter	*Rockford*
Johnson, Leona Agnes	*Chicago*
Jung, Edward F.	*Chicago*
Juskevic, Leo Joseph	*Chicago*
Kalom, Joseph	*Chicago*
Kaspar, Milton James	*Chicago*
Katz, Samuel Harry	*Chicago*
Kelch, Alfred Paul	*Decatur*
Kelley, Preston Woodson	*Chicago*
Kelley, Robert E.	*Chicago*
Kolowski, Edward Thomas	*Chicago*
Koster, Henry Louis	*West Chicago*
Kostlevy, George	*Chicago*
Kramer, Michael	*Chicago*
Kurzek, John	*Berwyn*

Kwasnicki, Joseph Mitchell	*Chicago*
LaRocco, Carlo	*Chicago*
Levinsky, Leonard	*Chicago*
Levy, Celia W.	*Chicago*
Lindwall, Walter Alfred	*Blue Island*
Lis, Leo Anthony	*Chicago*
Listecki, Edmund Anton	*Chicago*
Lundholm, Wallace E.	*Moline*
McKee, William	*Joliet*
Madura, Stephen Matthews	*Chicago*
Magad, Harry	*Chicago*
Marzano, Christopher	*Chicago*
Mason, Sam Herschel	*Chicago*
Mazur, C. Robert	*Chicago*
Meyerhoff, Ralph	*Chicago*
Miller, Sol	*Chicago*
Morgan, Max	*Chicago*
Neal, John Lewis	*Springfield*
Odess, George	*Chicago*
Okon, Stephen Marion	*Chicago*
Pandolfo, Joseph Nicholas	*Chicago*
Penney, Arthur Jackson	*Champaign*
Peterson, Glenn Otto	*Chicago*
Peterson, Raymond	*Joliet*
Placek, Frank Joseph	*Cicero*
Preskus, Julius Adam	*Chicago*
Pszota, Joseph	*Chicago*
Reiss, Allan	*Chicago*
Riback, Maurice	*Chicago*
Rosenthal, Julius	*Chicago*
Rothe, Arthur Joe	*Chicago*
Rotstein, Benjamin	*Chicago*
Sager, Ben William	*Chicago*
Sass, Joseph Charles	*Chicago*
Schell, Albert DeWitt	*Chicago*
Schwab, Arthur C.	*Cicero*
Schwaba, Mildred A.	*Chicago*
Segal, Abe R.	*Chicago*
Shanks, Charles Leonard	*Chicago*
Surak, John E.	*Chicago*
Thompson, Robert Annon	*Chicago*
Traub, Vernon Clair	*Lacon*
Turck, Solly Charles	*Chicago*
Varco, Joseph Francis	*Chicago*
Veatch, Cleo William	*Harrisburg*
Vold, Ben	*Chicago*
Wallmark, Clifford Frederick	*Sycamore*
Washington, Francis Wendell	*Chicago*
Weiss, Fred	*Chicago*
Wright, Seymour	*East Moline*
Wright, George C.	*Chicago*

Zdrubek, Vivian Janice	*Cicero*
Zentner, Lyle Philip	*Streator*
Balchofsky, Milton Irving	(Class of 1930)
DiGilio, Edith	(Class of 1930)
Gdalman, Louis	(Class of 1930)
Gershon, Solomon	(Class of 1930)

CERTIFICATE IN PHARMACY

Cohen, Ellen	*Chicago*
Dworkin, Sidney Horace	*Chicago*
Friedman, Edward J.	*Chicago*
Katz, Joseph Bernard	*Chicago*
Miraglia, Nicholas Edward	*Chicago*
Pauker, Jerome David	*Chicago*

PRIZES

THE SCHERER PHARMACY PRIZE	William O. C. Jahn
THE MRAZEK CHEMISTRY PRIZE	George Kostlevy
THE PEDIGO MATERIA MEDICA PRIZE	Cervensel Hanson
HODEL-SALTIEL-HODEL PRIZE	Harry Berlin
WILLIAM GRAY PRIZE	Charles T. Fawcett
S. L. ANTONOW PRIZE	Sister St. Charles Giguere
ALICE PELIKAN PRIZE	Ellen Cohen

HONORS

HARRY BERLIN
SISTER ST. CHARLES GIGUERE
GEORGE KOSTLEVY

LIST OF STUDENTS, 1930-31

COURSE FOR PHARMACEUTICAL CHEMIST

FRESHMEN

Abrams, Sam Roy	*Chicago*
Aiken, Christopher Hollie	*Thompsonville*
Alvey, Homer W.	*Lincoln*
Andro, Robert Louis	*Chicago*
Anzalone, Salvatore	*Chicago*
Anzuini, Mary C.	*Chicago*
Aronson, LaMarr Eric	*Buchanan, Michigan*
Asp, Harold William	*Chicago*
Axelrod, Miriam B.	*Chicago*
Azukas, Joseph	*Chicago*
Baker, Frances Lillian	*Chicago*
Balchofsky, Wm. Morris	*Chicago*
Balchunas, Stanley George	*Chicago*

Balsamo, Roy James	*Chicago*
Banoff, Abe	*Chicago*
Batkevich, Sally Catherine	*Chicago*
Baumgartner, Earl John	*Detroit, Michigan*
Bauml, Michael Arthur	*Chicago*
Becker, Morris Milton	*Chicago*
Bell, Philip	*Chicago*
Belz, Edward Herman	*Forest Park*
Belz, Herman Emil	*Forest Park*
Benes, Edward	*Chicago*
Berberet, Paul Bernard	*Springfield*
Berman, Bernard B.	*Chicago*
Berman, David Edward	*Green Bay, Wisconsin*
Billups, Charles Henrie	*East St. Louis*
Blum, Ira David	*Chicago*
Borrelli, Donald Anthony	*Chicago*
Bowers, Stephen Richard	*Waukegan*
Braverman, Herbert Bernard	*Chicago*
Brehmer, Irving Henry	*Lisbon, North Dakota*
Bremer, Gussie Henry	*Round Knob*
Bridgeman, Lawrence Clark	*Downers Grove*
Brooke, Marshall Dillon	*Chicago*
Brooks, Burton Chester	*Hillsboro*
Brown, Frederick Marion	*Shreveport, La.*
Brunstein, Irving	*Chicago*
Buchanan, Wm. Washington	*East St. Louis*
Bury, Charles Robert	*Chicago*
Buyer, Benjamin Leoni	*Chicago*
Cahan, Max Zenith	*Chicago*
Canedy, Frank William	*Rock Island*
Caplinger, Walter Leslie	*Marion*
Carlson, Paul Robert	*Rockford*
Cassarella, Walter Alfred	*Chicago*
Catrambone, Dominic Carl	*Chicago*
Cerrone, Anthony Henry	*Chicago*
Champagne, Anastasia	*Chicago*
Chekauckas, John	*Chicago*
Chipman, Hal Merle	*Littleton*
Chrzanowski, Thaddeus James	*Chicago*
Cihon, John Joseph	*Chicago*
Claitman, Julian	*Chicago*
Cohen, Minnie	*Chicago*
Collins, Arthur Cyril	*Harvey*
Cooper, Meyer	*Chicago*
Corcoran, Joseph Anthony	*Chicago*
Curry, Neil	*Chicago*
Dalburg, Harry Wm.	*Chicago*
Dalka, Thomas Aloysius	*Chicago*
Dargis, Anthony Alexander	*Chicago*
Davis, Ernest Clower	*Pawnee*
Delaney, Joseph Patrick	*Chicago*

deLong, Martin Miller	*Chicago*
DePaul, Sam Stokes	*Chicago*
Dey, Ferdinand Eugene	*Litchfield*
Di Gilio, Maria Raphaella	*Chicago*
Divine, Edward Harvey	*Chicago*
Domina, Salvatore	*Chicago*
Dorevitch, Aaron	*Poland*
Dyson, Jay Hue	*Chicago*
Edwards, Gerald Gail	*Kilbourne*
Efrussy, Ben	*Chicago*
Egeland, Harold Gabriel	*Chicago*
Ehrlich, Louis	*Chicago*
Engle, James Francis	*Chicago*
Eastabrooks, Donald Stanley	*Aurora*
Fabbro, Silvio Louis	*Cicero*
Farm, Virgil Wm.	*Aledo*
Feinberg, Max	*LaCrosse, Wisconsin*
Feinberg, Samuel Hyman	*Chicago*
Fiddler, Allan	*Chicago*
Fishman, Daniel	*Chicago*
Fitzsimmons, Sister M. M. Catherine	*Chicago*
Flanagan, Joseph James	*Chicago*
Fox, Jack	*Chicago*
Fox, Max Isidore	*Chicago*
Frederickson, Elton A.	*Gardner*
Gallagher, Sister Anne	*Chicago*
Gasick, Michael Stanley	*Chicago*
Gelsomino, Lazri	*Chicago*
Giacinti, Ann Sophia	*Chicago*
Glassman, Charles	*Chicago*
Goldenberg, Isaac Alexander	*Chicago*
Goldenberg, Nathan	*Chicago*
Goldin, Joe	*Chicago*
Goldsmith, Leo Adolph	*Chicago*
Gray, Holmes Hurst	*Springfield*
Greene, Wilson Craff	*Chicago*
Gustafson, Roy Holger	*Moline*
Hagemann, Ralph Wm.	*Quincy*
Hahn, Wm. Frederick	*Chicago*
Harney, Martin Joseph	*Chicago*
Harper, Harold Algene	*Carmi*
Harris, John Daniel	*Chicago*
Harris, Kenneth Herbert	*Chicago*
Harter, Keith D.	*Canton*
Hartleb, Harry Harvey	*Gurnee*
Hartsough, Beth	*Rockford*
Hatter, Florence Marie	*Cicero*
Hattis, Irwin	*Chicago*
Helfer, Benny	*Chicago*
Heller, Morris	*Chicago*
Himelfarb, Samuel David	*Chicago*

Homolka, Frank Joseph	*Cicero*
Honig, Oscar	*Chicago*
Hook, Delbert	*Lake Villa*
Horn, Wm. Alfred	*Chicago*
Horna, Jerome Valerian	*Lyons*
Horvath, Bela	*Chicago*
Hronek, Joseph Wm.	*Chicago*
Jacob, Anthony	*Chicago*
Jaffe, Isadore	*Chicago*
Jakubowski, Ladislaus	*Chicago*
Janes, Fred Laughlin	*Industry*
Jundt, George Albert	*Chicago*
Kachman, Max	*Chicago*
Kahn, Irving Simon	*Chicago*
Kaniuk, John	*Chicago*
Kantenis, Frank Peter	*Chicago*
Kaplan, David Arthur	*Wilmette*
Karwacki, Edmund Anthony	*Chicago*
Katz, Herman	*Chicago*
Kaufman, Harry Irving	*Chicago*
Kazer, Edwin Franklin	*Chicago*
Kemp, Dorothy	*Chicago*
Keren, Nathan	*Chicago*
Kirsch, Morris	*Chicago*
Klima, Joseph	*Chicago*
Kniss, Robert Lee	*Lanark*
Kolar, Robert Charles	*Berwyn*
Kondziela, Stanley W.	*Chicago*
Kopta, Wm. Frank	*Cicero*
Korinek, Frank Joseph	*Berwyn*
Kot, Henry Charles	*Chicago*
Kovarik, Edward Joseph	*Chicago*
Kozak, Louis	*Berwyn*
Kozen, Grace Marie	*Chicago*
Krohn, Irwin Lustgarten	*Chicago*
Krohn, Jack Lustgarten	*Chicago*
Krueger, Walter Otto	*Chicago*
Kruszka, Peter George	*Chicago*
Kuhn, Wilbur Joseph	*Pana*
Kuhrt, Harry Karl	*Evanston*
Kulis, Casimir Michael	*Chicago*
Kurkov, Milton	*Chicago*
Kurofsky, Jacob	*Chicago*
Lacey, John	*Grand Ridge*
Laskov, Milton Harold	*Chicago*
Leach, Robert Lafayette	*Gentry, Arkansas*
Leaton, David	*Chicago*
Lee, Frank	*Chicago*
Lee, Reuben Mack	*Chicago*
Lentino, Joseph Anthony	*Chicago*

Lesinski, Edward Victor	*Chicago*
Lewis, Albert	*Chicago*
Lieberman, Samuel Maurice	*Chicago*
Lipinski, Adam Vincent	*Chicago*
Lipschultz, Robert Louis	*Chicago*
Lukasik, Leopold Marion	*Chicago*
Lusk, Robert Louis	*Mahomet*
Lustig, Alfred	*Chicago*
Lynch, Milton Vincent	*Rockford*
McCannel, David Don	*Pekin*
McClellan, Dean	*Mounds*
McFadden, Eugene Joseph	*Spring Valley*
McKee, Dwight Orville	*Mansfield*
McKee, Paul	*Mansfield*
Madaj, Benjamin Frank	*Chicago*
Maggio, Peter Daniel	*Chicago*
Mailman, Louis L.	*Chicago*
Malone, Anne	*LaSalle*
Marcus, Lee Lester	*Chicago*
Markley, Charles Gordon	*Cicero*
Medintz, Henry	*Chicago*
Melin, Edgar	*Taylorville*
Mendelsohn, Harry	*Chicago*
Michalek, Joseph	*Brookfield*
Mikkola, Harry A.	*Chicago*
Mills, Menroy B.	*Rockford*
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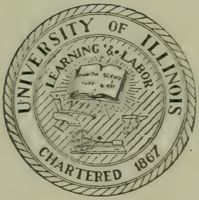

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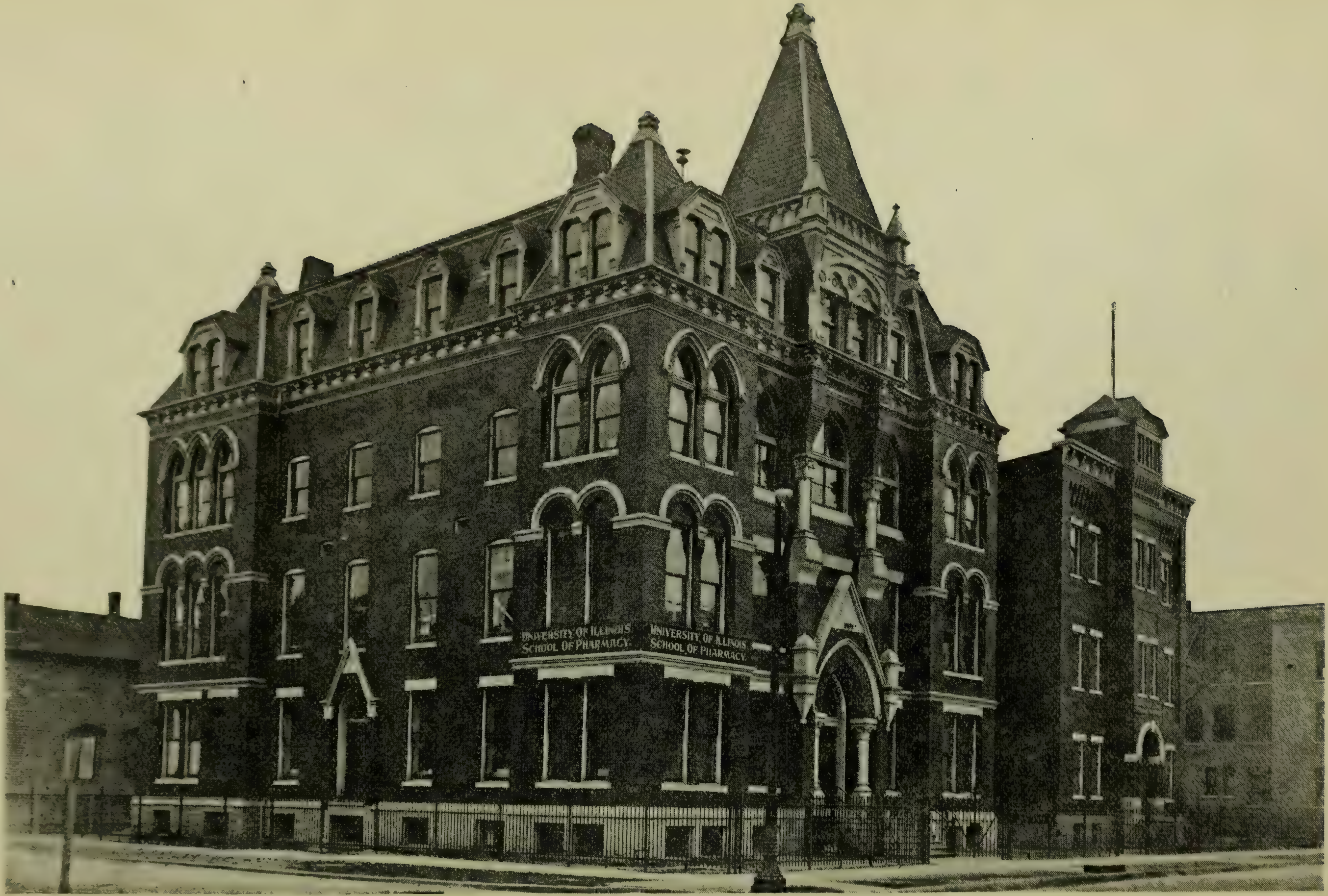
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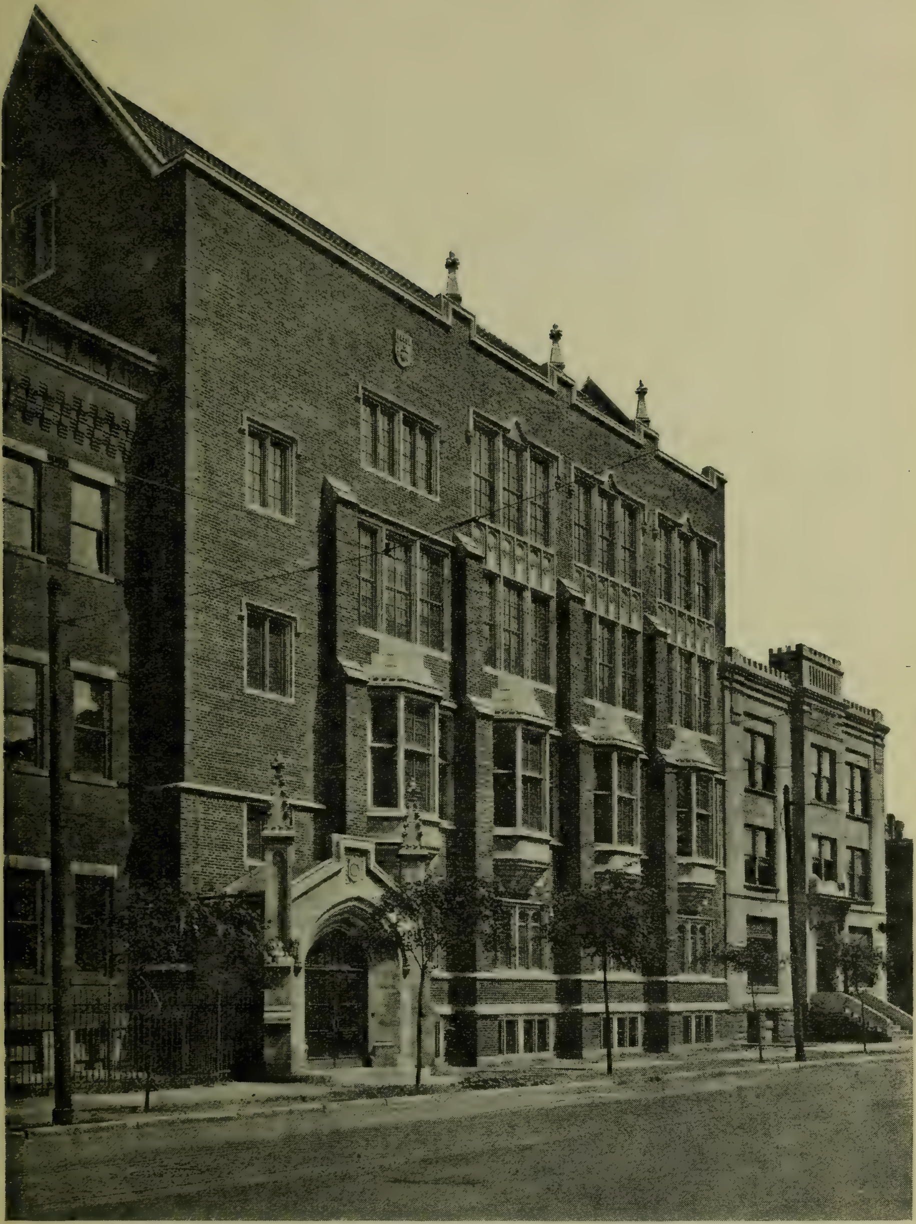

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William Robert Collins, Ph.C., *Assistant in Pharmacy.*

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CALENDAR—1932-33

First Semester

October 3, Monday, 8 a.m.-5 p.m.
Registration and payment of fees

October 4, Tuesday, 9 a.m.
Instruction begun

November 23, Wednesday, 12 m.
Thanksgiving recess begun

November 28, Monday, 8 a.m.
Instruction resumed

December 21, Wednesday, 5 p.m.
Holiday recess begun

January 3, 1933, Tuesday, 8 a.m.
Instruction resumed

February 1 to 5, Monday to Friday
Semester Examinations

Second Semester

February 6, Monday, 8 a.m.-5 p.m.
Registration and payment of fees

February 7, Tuesday, 8 a.m.
Semester instruction begun

April 13, Thursday, 5 p.m.
Easter recess begun

April 17, Monday, 8 a.m.
Instruction resumed

May 30, Tuesday
Memorial Day

May 29-June 2, Monday-Friday
Final Examinations

June 8, Thursday
Alumni Meeting

June 9, Friday
Commencement
Chicago Professional schools of the University

COLLEGE OF PHARMACY

HISTORY

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the Trustees and officers of the University have had the assistance of an Advisory Board of pharmacists nominated by the pharmacists of the State, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

LOCATION

The location of the College of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of two hundred eighty feet on Wood Street and one hundred twenty-four on Flournoy Street.

THE COLLEGE BUILDINGS

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

THE LECTURE ROOMS

There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

THE LABORATORIES

Ten laboratories having a total capacity of 700 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air.

In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. An equipment of machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

The Library

The Library contains over five thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

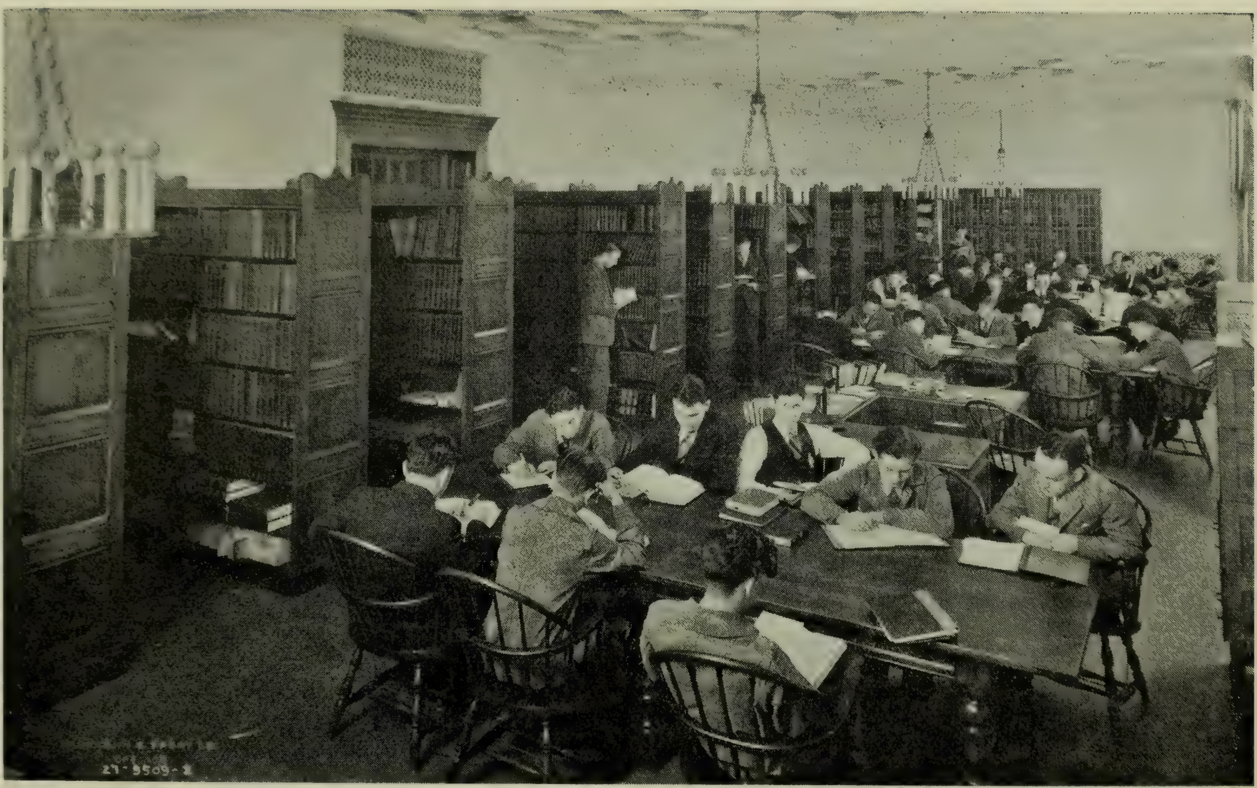
The Museum

The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens.

Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

The Students' Rooms

Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.



Library

REQUIREMENTS FOR ADMISSION

The requirements for admission to the College of Pharmacy of the University of Illinois are as follows:

1. AGE

The applicant must be at least seventeen years of age.

2. NON-ILLINOIS STUDENTS

All applicants for admission to the College of Pharmacy, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade, e.g., in a system of A, B, C, and D, with D as the passing grade, the average must be C.

3. REQUIREMENTS EFFECTIVE IN SEPTEMBER, 1932

For admission to the College of Pharmacy candidates must present:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives (not more than 4 units from non-academic subjects)	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (including algebra and trigonometry)	5

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, and bacteriology) may be elected. As desirable electives the following are recommended: accountancy, history, zoology and economics.

Preference to Illinois Residents.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

4. STATE QUALIFYING CERTIFICATE

The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school and blanks will be supplied by the school for the convenience of students in making this application.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

REQUIREMENTS FOR GRADUATION

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

Students entering in 1932 or thereafter will receive the degree of Bachelor of Science in Pharmacy upon successfully completing the prescribed course.

REQUIREMENT OF C IN THREE-FOURTHS OF WORK FOR THE DEGREE

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree.[1]

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[1] The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor (but passing); E, failure.

COURSES OF INSTRUCTION

THE THREE-YEAR CURRICULUM

This course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

(The first year of this three-year curriculum was offered for the last time in 1931-32.)

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Assistant Professor WIRTH, Dr. GROOT, Miss MEYER, Mr. DORJAHN, Mr. CARPENTER, Miss STUCHLIK, Mr. ADAMSON, Mr. EYER, Mr. BRUCH

FIRST YEAR

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.
Professor DAY, Professor GATHERCOAL, Mr. CARPENTER, Mr. ADAMSON

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. GROOT

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Professor GATHERCOAL, Mr. CARPENTER, Mr. ADAMSON

SECOND YEAR

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Mr. DORJAHN, Mr. BRUCH

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Assistant Professor WIRTH, Mr. DORJAHN, Mr. BRUCH

THIRD YEAR

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. EYER

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.
Professor DAY, Mr. DORJAHN, Miss MEYER, Mr. EYER

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and micro-chemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester.
Assistant Professor WIRTH, Miss STUCHLIK

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER,
Mr. PATELSKI, Miss ROSENBLUM, Mr. KIRCH, Mr. SODERDAHL,
Miss KASBEER, Mr. GERSHON

FIRST YEAR

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester. Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. SODERDAHL, Mr. KIRCH

SECOND YEAR

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the

U.S.P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. GERSHON

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER,
Mr. GERSHON, Mr. SODERDAHL

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

Mr. CLARKE, Miss ROSENBLUM, Mr. GERSHON

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER,
Mr. GERSHON, Mr. SODERDAHL

THIRD YEAR

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First Semester. Professor CLARK

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester. Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Mr. WEBSTER, Mr. PATELSKI, Miss KASBEER

PHARMACY

Professor SNOW, Assistant Professor TERRY, Mr. MARTIN, Mr. MORRISON,
Mr. EMIG, Mr. OCENASEK, Mr. SHKOLNIK, Mr. WAYTZ,
Mr. REIFLER, Mr. TEMPLETON, Mr. BRODY

FIRST YEAR

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.* — The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY, Mr. REIFLER, Mr. TEMPLETON

SECOND YEAR

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formu-

lary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

THIRD YEAR

10. *Operative Pharmacy.*—Three lectures and recitations and two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) First semester. Professor SNOW, Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ

11. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) First semester. Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ

12. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) Second semester. Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ

13. *Advanced Dispensing.*—Three lectures and recitations, two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) Second semester. Professor SNOW, Assistant PROFESSOR TERRY, Mr. EMIG, Mr. WAYTZ

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years. Mr. MORRISON, Mr. COLLINS

SUMMARY OF THE THREE-YEAR CURRICULUM

FIRST YEAR

(Not offered after 1931-32)

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Laboratory		
Pharmacy 1, 2 & 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica & Botany 1	3	3	6	4
Total for semester	14	10	24	17

Second Semester

Pharmacy 4 & 5	4	3	7	5
Chemistry 3 & 4	4	4	8	5
Materia Medica & Botany 2 & 3	4	6	10	6
Total for semester	12	13	25	16

SECOND YEAR

First Semester

Pharmacy 6 & 7	4	6	10	6
Chemistry 5 & 6	5	7	12	7
Materia Medica & Botany 4 & 5	4	6	10	6
Total for semester	13	19	32	19

Second Semester

Pharmacy 8 & 9	4	6	10	6
Chemistry 7 & 8	5	7	12	7
Materia Medica & Botany 6 & 7	4	6	10	6
Total for semester	13	19	32	19

THIRD YEAR

First Semester

Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Total for semester	10	23	33	17

Second Semester

Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9 & 10	3	6	9	5
Dispensary	..	3	3	1
Total for semester	8	23	31	15

Total semester hours in three years........103

Average number of clock hours a week a semester........29

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of one year of work in a recognized college or university including not less than 30 semester hours. The work of this year must include prescribed subjects as follows:

Subject	*Semester Hours*
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (including Algebra and Trigonometry)	5

The remaining hours, sufficient to make a total of 30, exclusive of military, physical training, and hygiene, may be made up from electives subject to the following restrictions:

(1) No work in Chemistry in addition to the prescribed work, as listed above, may be included.

(2) No course in subjects offered in the School of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected.

This year of college work must have been preceded by graduation from an accredited secondary school.

FIRST YEAR OF THE FOUR-YEAR CURRICULUM

(As offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana)

First Semester	Hours	*Second Semester*	Hours
Physical Education	½ or 1	Physical Education	½ or 1
Hygiene 1 or 2	½	Hygiene 3 or 4	½
Military (for men)	1	Military (for men)	1
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6–2	Electives[1]	5
Total	17 or 16½	Total	17 or 16½

The last three years of this four-year course will be taken in the College of Pharmacy but during the school year 1932-33 only the sophomore year of the four year curriculum will be offered.

SOPHOMORE YEAR

Materia Medica and Botany

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

22. *Plant Histology.*—The microscopic structure of plants with special refer-

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. Botany, Physiology and additional courses in chemistry are *not* accepted.

ence to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

CHEMISTRY

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. Two class periods and two laboratory periods each week. (4 semester hours, 8 clock hours.) First semester.

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four class periods and one laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.

24. *Physics.*—Mechanics and heat. Three class periods and three hours of laboratory. (4 semester hours, 6 clock hours.) Second semester.

PHARMACY

21. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

23. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

22. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and

strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

24. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

SUMMARY OF THE LAST THREE YEARS OF THE NEW FOUR-YEAR CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

SOPHOMORE YEAR
(Offered in October, 1932 and thereafter)

First Semester

	Clock hours each week		Total clock Hours	Total Semester Hours
	Lec. & Rec.	Laboratory		
Pharmacy 21, 23, 25	7	3	10	8
Chemistry 21	2	6	8	4
Botany 21	3	3	6	4
Total for semester	12	12	24	16

Second Semester

Pharmacy 22, 24	3	4	7	4
Chemistry 22	4	4	8	5
Physics 24	3	3	6	4
Histology 22	2	6	8	4
Total for semester	12	17	29	17

JUNIOR YEAR
(Offered in October, 1933 and thereafter)

First Semester

Pharmacy 6 & 7	4	6	10	6
+Chemistry 8	3	4	7	4
+Materia Medica & Botany 5	2	6	8	4
+Physics (new)	3	3	6	4
Total for semester	12	19	31	18

Second Semester

Pharmacy 8 & 9	4	6	10	6
+Chemistry 5	3	6	9	5
+Materia Medica & Botany 7	2	6	8	4
Materia Medica & Botany 2	3	0	3	3
Total for semester	12	18	30	18

SENIOR YEAR
(Offered in October, 1934 and thereafter)

First Semester

Pharmacy 10 & 11	4	6	10	6
Chemistry 9 & 10	3	8	11	5
Materia Medica & Botany 8	3	9	12	6
Total for semester	10	23	33	17

Second Semester

+Business Law (new)	1	0	1	1
Pharmacy 12 & 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica & Botany 9	3	0	3	3
+Materia Medica & Botany 10	1	6	7	3
Dispensary	0	3	3	1
Total for semester	10	23	33	17

(Courses marked thus + are either changed or new as compared with those described in the three-year course, pages 15 to 20.

Total semester hours in the three years	103
Included in the pre-pharmacy year	30
Total semester hours for the degree	133

GENERAL INFORMATION

LEGISLATIVE SCHOLARSHIPS

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

County Scholarships.—One for each county. The holder is selected by competitive examination.

General Assembly Scholarships.—One nomination annually by each member of the General Assembly.

State Military Scholarships.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

THE FAIRCHILD SCHOLARSHIP

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a school of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a school of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

THE AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

ALBERT E. EBERT LOAN FUND

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount now in the fund is $1,948.25. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

GRADUATION WITH HONORS

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

PRIZES

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Leo L. Mrazek, an alumnus of the College, offers a prize of twenty-five dollars in gold to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

PEDIGO PRIZE.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumnus of the College offers a prize of twenty-five dollars to the senior student who attains the highest average in Materia Medica.

FEES AND EXPENSES

ILLINOIS STUDENTS

	Sophomore Year (4-year course)		*Junior Year* (3-year course)		*Senior Year* (3-year course)	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]	23.00	29.00	33.00	27.00	35.00	31.00
Diploma fee	.....	.....	.....	.....	.....	10.00
	$83.00	$79.00	$83.00	$77.00	$85.00	$91.00

NON-ILLINOIS STUDENTS

Non-Illinois students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation nor diploma fees.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The new ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

CHICAGO BRANCH OF THE A. PH. A.

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

STATE REGISTRATION

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The diploma of this College is accepted in all states where graduation prerequisite laws are in force, as admitting to the licensing examination.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

For further information or for a matriculation blank, address

THE DEAN
715 South Wood St., Chicago, Ill.

DEGREES, 1932

Degree of Pharmaceutical Chemist

(Conferred February, 1932)

Cohen, Samuel, Chicago
DeTrana, Loretta Beatrice, Chicago
Fridkin, Carl Lester, Chicago
Friedland, Benjamin M., Chicago
Kortum, Lloyd Harold, Chicago
McClellan, Percy Elmer, Park City, Utah
Miller, Elmer Samuel, Chicago
Nelson, Spencer Stanley, Batavia
Nepil, Erwin Albert, Chicago
Rosen, Manuel, Chicago
Wesolowski, Thaddeus Frank, Cicero
Dworkin, Sidney Horace, Chicago (Class of 1931)
Friedman, Edward J., Chicago (Class of 1931)
Katz, Joseph Bernard, Chicago (Class of 1931)
Miraglia, Nicholas Edward, Chicago (Class of 1931)
Pauker, Jerome David, Chicago (Class of 1931)

(Conferred June, 1932)

Adderley, Verna Mae, Chicago
Anderson, Gilbert Scott, Chicago
Ardean, Nicholas, Harvey
Armsworth, James A., Monticello
Backer, Meyer, Chicago
Baker, John Henry, Freeport
Baldwin, Harry Eugene, Chicago
Bardo, Stanley E., Chicago
Berger, Ben Bernard, Chicago
Bernardi, Charles Bernard, Wilmette
Biddle, George Gunther, Chicago
Borovicka, George Edward, Cicero
Cech, Joseph Jerry, Hollywood
Chelovich, Spas, Chicago
Coleman, Joseph L., Chicago
Cook, Thomas D., Chicago
Cooperman, Seymour, Chicago
Cribb, Helen Ione, Antioch
Crane, Meyer, Chicago
Curtin, Thomas John, Chicago
Daniel, John Bernard, Chicago
Dragel, Daniel T., Chicago
Drazek, Aloysius, Chicago
Eastburn, Russell Emerson, Watseka
Fisher, Elmer, Chicago
Frey, Orville Robert, Chicago
Friesenecker, Earl M., Chicago
Geleta, Walter, Joliet
Giles, John Clifford, Monmouth
Glass, Harvey, Chicago
Goldberg, Maurice Robert, Chicago
Golden, Boris, Chicago
Goldsmith, Myron, Chicago
Goslin, Arthur, Streator
Greenberg, Seymour E., Chicago
Gvozdjak, Mary Erma, Chicago
Handler, Jay Allen, Chicago
Henninger, Ralph Marshall, Rushville
Hitzelberger, Hugo Robert, Chicago
Hoffen, Samuel, Chicago
Holton, Elvera Marie, Chicago
Hora, James Leopold, Cicero
Horky, Charles Joseph, Berwyn
Horvat, Anthony William, Chicago
Israelite, Sidney, Chicago
Johnson, Russell Ernest, Chicago
Johnson, Willard William, Chicago
Jones, Roy Allen, Mt. Vernon
Kakanauskas, Charles Peter, Cicero
Kalina, George Edward, Chicago
Kepner, Henry Sieber, Chicago
King, Victor Henry, Rice Lake, Wisconsin
Kirincich, Nicholas John, Joliet
Kisla, Francis, Chicago
Klostermann, Eberhard J., Chicago
Kohout, Frank Louis, Chicago
Korous, Mildred, Brookfield
Krinsky, Edward Musaf, Chicago
Kutza, Maryan Joseph, Chicago
Little, William Charles, Chicago
McCann, Harry Ambrose, Chicago
Markovsky, Harry, Chicago
Marzullo, Salvatore V., Elmwood Park
Mazurek, John Matthew, Chicago
Michael, James Edward, Chicago
Millman, Alex, Chicago
Misjukowetz, Nicholas, Chicago
Motto, Salvatore, Chicago
Mutchnik, Meyer, Chicago
Nathanson, David, Chicago
Newman, Clarence, Chicago
Nowak, Edward, Chicago
Oris, Alexander Manuel, Chicago
Pape, Melvin F., Brookfield
Perkins, Alden Harry, Belvidere
Petrauskas, William Joseph, Chicago
Petrick, Milton Ernest, Chicago
Plohocki, Zenon Kasimir, Chicago
Plotkin, Jules, Chicago
Polacek, Jerry John, Berwyn
Polen, William Estel, Peoria
Pratt, Ralph F., Dwight
Press, Joseph Herman, Chicago
Press, Maurice, Chicago
Quillman, Peter, Valier
Reimers, Robert James, Moline
Rini, Vincent Frank, Chicago
Roskin, Nathan, Chicago
Rosy, Remo Anthony, Chicago
Rozen, Charles, Chicago
Rubin, Edward, Chicago
Ruckstuhl, Francis George, Chicago
Sanda, Joseph Anton, Cicero
Savage, Harold F., Lincoln
Schechtman, Joseph, Chicago
Skor, James, Chicago
Sloan, Jack, Chicago
Soukup, Leo, Highland Park
Stangle, Edward, Chicago
Strauss, Sam, Chicago
Tessitore, John Nicholas, Chicago
Torgownik, Irving, Chicago
Trulli, Martin, Chicago
Vacha, Joseph Frank, Berwyn
Vanek, Otto Miles, Berwyn
Villani, Joseph Robert, Chicago

Watt, Val, Springfield
Wedral, Jerry William, Cicero
Wolters, Wayne Bernhard, Havana
Wong, Henry, Chicago
Wright, William Wilkinson, Chicago
Youssi, Harold Edward, Batavia
Zaleski, Rufin H. E., Chicago
Cohen, Ellen, Chicago (Class 1931)

Certificate in Pharmacy

Cohen, Harold Norman, Chicago
Delhaye, Roy Joseph, Highland Park
Drexel, Frank Bernard, Chicago
Golden, David, Chicago
Gorodazky, Rose Lillian, Chicago
Grais, Joseph, Chicago
Kaplan, Jack, Chicago
Kohn, Blossom, Chicago
Kotlan, George William, Cicero
Levin, Jack, Chicago
Lohr, Joseph Edward, Cicero
Ross, Samuel Edward, Chicago
Sherman, Louis Charles, Chicago

PRIZES

The Scherer Pharmacy Prize: David Nathanson
The Mrazek Chemistry Prize: Frank Bernard Drexel
The Pedigo Materia Medica Prize: Joseph Edward Lohr
The Hodel-Saltiel-Hodel Prize: Boris Golden
William Gray Prize: Henry Sieber Kepner
S. L. Antonow Prize: Blossom Kohn
Alice Pelikan Prize: Joseph J. Cech

HONORS

David Nathanson

LIST OF STUDENTS, 1931-32

Course for Pharmaceutical Chemist

FRESHMEN

Adams, Harry William, Chicago
Adler, Irving, Chicago
Africk, Hyman, Chicago
Aiello, Anthony Raymond, Chicago
Aiken, Christopher Hollie, Thompsonville
Albrecht, Clement Frederick, Dakota
Alderson, Leland Burdette, Kinmundy
Altier, Peter Ralph, Summit
Anderson, Gustav Leon, Berwyn
Andro, Robert Louis, Chicago
Armato, Peter Carlo, Chicago
Ast, Felix Zenon, Chicago
Bartkus, Peter John, Chicago
Bazeluk, Stanley, Chicago
Beilfuss, Arthur August, Cicero
Bergdahl, George, Highwood
Berkowitz, Henry, Chicago
Berman, Bernard, Chicago
Berman, Esther, Chicago
Bilek, William Julian, Chicago
Blonder, Theodore Hyman, Chicago
Borek, Joseph Walter, Chicago
Bower, Milton Seymour, Chicago
Bowers, Stephen Richard, Waukegan
Breakstone, Seymour, Chicago
Brehmer, Irving Henry,
    Lisbon, North Dakota
Brooke, Marshall Dillon, Chicago
Broskuf, Maxwell, Chicago
Bruha, George Edward, Cicero
Bruso, Wallace McNamee,
    Oceanside, California
Burger, David Theil, Elgin
Cambio, Ralph Archille, Chicago
Cartwright, Paul John, Chicago
Catrambone, Dominic Carl, Chicago
Cazel, Ernest Robert, Wilmette
Cerny, William Michael, Chicago
Champagne, Anastasia, Chicago
Chernoff, Arthur, Chicago
Cherskov, Elmer Stephen, Chicago
Chiaramonte, Anthony Charles, Chicago
Childers, George Marion, Utica
Christensen, Arnold Carl Emil, Chicago
Chuman, Jerry Charles, Chicago
Cohen, Marvin Harvey, Chicago
Cohn, Arnold Manville, Chicago
Cole, Florence Lorraine, Chicago
Comess, Nathan, Chicago
Coonrad, John Wesley, Woodstock
Covalt, Reece Carlyle, Mattoon
Czwalinski, Lillian A., Chicago
Dalka, Thomas Aloysius, Chicago
Davis, Victor Lee, Marion
Denenholz, Leonard, Chicago
Domina, Salvatore, Chicago
Dorevitch, Aaron, Chicago
Drexler, Max, Chicago
Drexler, Sam, Chicago
Drolet, Eugene Jerome, Harvey
Duderstadt, Peery August, Chicago
Dyson, Jay Hue, Chicago
Edwards, Gerald Gail, Kilbourne
Engle, James F., Chicago
Faletti, Louis John, Dalzell
Feinberg, Leonard Harold, Chicago
Feldman, Harry, Chicago
Figler, Jack, Chicago
Flanagan, Joseph James, Chicago
Folmer, Eugene Joseph, Chicago
Forkash, David, Chicago
Frank, Harry Philip, Chicago
Freyermuth, Harold George, Muscatine, Iowa
Fridrych, Anton Albert, Riverside

Gajewski, Edward Daniel, Chicago
Gandell, Harry, Chicago
Gardner, Henry, Whiting, Indiana
Gasick, Michael Stanley, Chicago
Gelfand, Max, Chicago
Gelsomino, Lazri, Chicago
Gerber, Ernest Joe, Springfield
Giacinti, Ann Sophia, Maywood
Gierszewicz, Edward Stanley, Chicago
Glaser, Edward Joseph, Chicago
Glowczewski, Arthur Paul, Chicago
Goldin, Aaron Archie, Chicago
Goodman, Arthur Ira, Chicago
Goralski, Floyd John, Chicago
Grams, Edward Thomas, Chicago
Granatelli, Salvator Anthony, Chicago
Granneman, Louis Kenneth, Hurst
Gray, Holmes Hurst, Springfield
Green, Walter Aaron, Chicago
Green, Willard, Chicago
Greenspoon, Joseph, Chicago
Gungler, Joseph, Bellwood
Hagal, Florian Adam, Chicago
Hagemeyer, Harold Paul, Chicago
Hajicek, Theodore James, Berwyn
Handzel, Leo, Chicago
Harris, Kenneth Herbert, Chicago
Harter, Keith D., Canton
Hatch, Richard, Chicago
Heddles, Willard Franklin, Chicago
Henning, Kenneth Roy, Chicago
Herbstman, Felix Charles, Chicago
Hetherington, Raymond Francis, LaSalle
Hilberg, Herbert Stanley, Chicago
Hoft, Robert William, Berwyn
Holstin, Marvel Leroy, Chicago
Honorowski, Sister Mary Getulia, Chicago
Horacek, Jaroslav Jerry, Chicago
Horna, Jerome Valerian, Lyons
Hubbell, William Lincoln, Monticello
Hulcziy, Nicholas Joseph, Chicago
Indovina, Anthony Andrew, Chicago
Indovina, Andrew Vincent, Chicago
Infusino, Alfred Rosario, Chicago
Jacob, Anthony, Chicago
Jaffe, Isadore, Chicago
Jaglinski, Harry Walter, Chicago
James, Russell Lowell, Peoria
Jankauskas, Edward Charles, Waukegan
Jankowski, John Stanley, Chicago
Janosik, Lillian Ella, Cicero
Jasien, Walter Albert, Chicago
Johnson, Virden Alfred, Sterling
Jones, William Darling, East St. Louis
Joseph, David Daniel, Chicago
Jundt, George Albert, Chicago
Juravich, John Rudolph, Chicago
Kabak, Sam, Chicago
Kalasinski, Joseph Paul, LaSalle
Kaniuk, John, Chicago
Kanter, Louis, Chicago
Kaplan, Leon, Chicago
Kaplan, Willard Harry, Chicago
Karsa, Edward Abraham, Chicago
Kasmar, John James, Chicago
Katz, Jack Gareth, Chicago
Kaufman, L. Louis, Chicago
Kays, Duglas Keith, LaSalle
Kazer, Edwin Franklin, Chicago
Kisner, Talmage Wilfred, Carmi
Knox, Robert Julius, Lake Forest
Koepke, Roland Frank, Batavia
Kopel, William, Chicago
Kowalczyk, Josephine, Chicago
Kowalski, Ervin Frank, Chicago
Kritzman, Alex, Chicago
Ksycki, Bernard Henry, Chicago
Kukee, David, Chicago
Kulis, Casimir Michael, Chicago
Kunke, Robert Francis, Chicago
Kurkov, Milton, Chicago
Kutza, Henry Julian, Chicago
Lampert, Arthur Leonard, Chicago
Lantz, Alford Lewis, Kearney, Nebraska
Lapofski, Sol, Chicago
Latelle, Joseph Louis, Chicago
Laufer, Alden George, Chicago
Lawrence, Victor Emanuel, Chicago
Lee, Reuben Mack, Chicago
Leonard, Lena Armida, Chicago
Lerner, Louis, Chicago
Lewis, Evan Robert, Lockport
Limperis, William Samuel, Chicago
Linetzky, Sam Harry, Chicago
Lorenz, Otto Herman, Chicago
LoSasso, Benedict, Chicago
LoSasso, Bennie Martin, Chicago
Lowy, Howard Arthur, Chicago
Lundholm, Paul Chester, Moline
McDaniel, Clifford H., Metropolis
McFadden, Eugene Joseph, Spring Valley
Madaj, Benjamin Frank, Chicago
Marder, Sol Julius, Chicago
Markin, Herbert, Chicago
Matuz, Charles Frank, Chicago
Menna, Emil, Chicago
Minerva, Mario, Chicago
Miles, Elmus Eugene, West Frankfort
Morse, Dayton, Harvey
Moss, Elmore Max, Chicago
Mukensnable, Fred, Chicago
Muno, Frank Joseph, Chicago
Naviaux, Irving Roussel, Oak Park
Nieman, Mitchel, Chicago
Niezgodski, Aloysius John, Chicago
Nitupsky, Bernard, Chicago
Novotny, Jerry, Chicago
Nowakowski, Teddy, Chicago
Oehlberg, Mathias Joseph, Chicago
Okonski, Alice Anne, Chicago
Olson, Roswell Robert, Rockford
O'Neill, Edward R., Oak Park
Ostry, Richard John, Cicero
Padgham, Kenneth Albert, Chicago
Pappageorge, Harry George, Chicago
Parrish, LaFayette, Metropolis
Partacz, Walter Charles, Chicago
Pawloski, Edward James, South Chicago
Penner, Raymond, Chicago
Pertzovsky, Louis, Chicago
Plotkin, Irving, Chicago
Polski, Leon Thomas, Chicago
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English	6 semester hours
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Electives	34 semester hours
Total	60 semester hours

In October, 1933, the distribution of college credits will be changed, although the number of hours will not be increased.

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1934/35

UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

Announcement for 1934-1935

CHARTERED 1867

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CHICAGO

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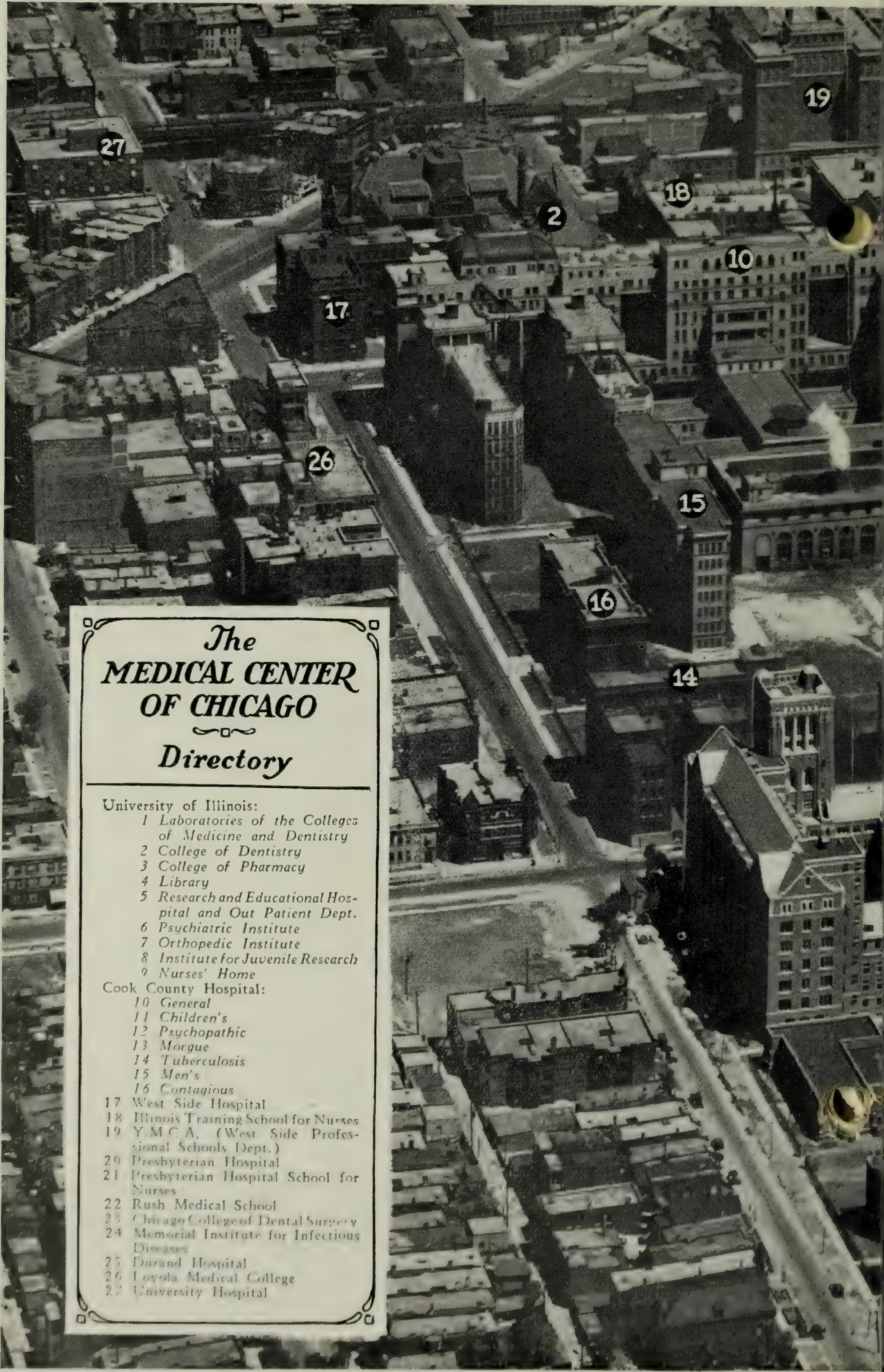

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  4 Library
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  7 Orthopedic Institute
  8 Institute for Juvenile Research
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  16 Contagious
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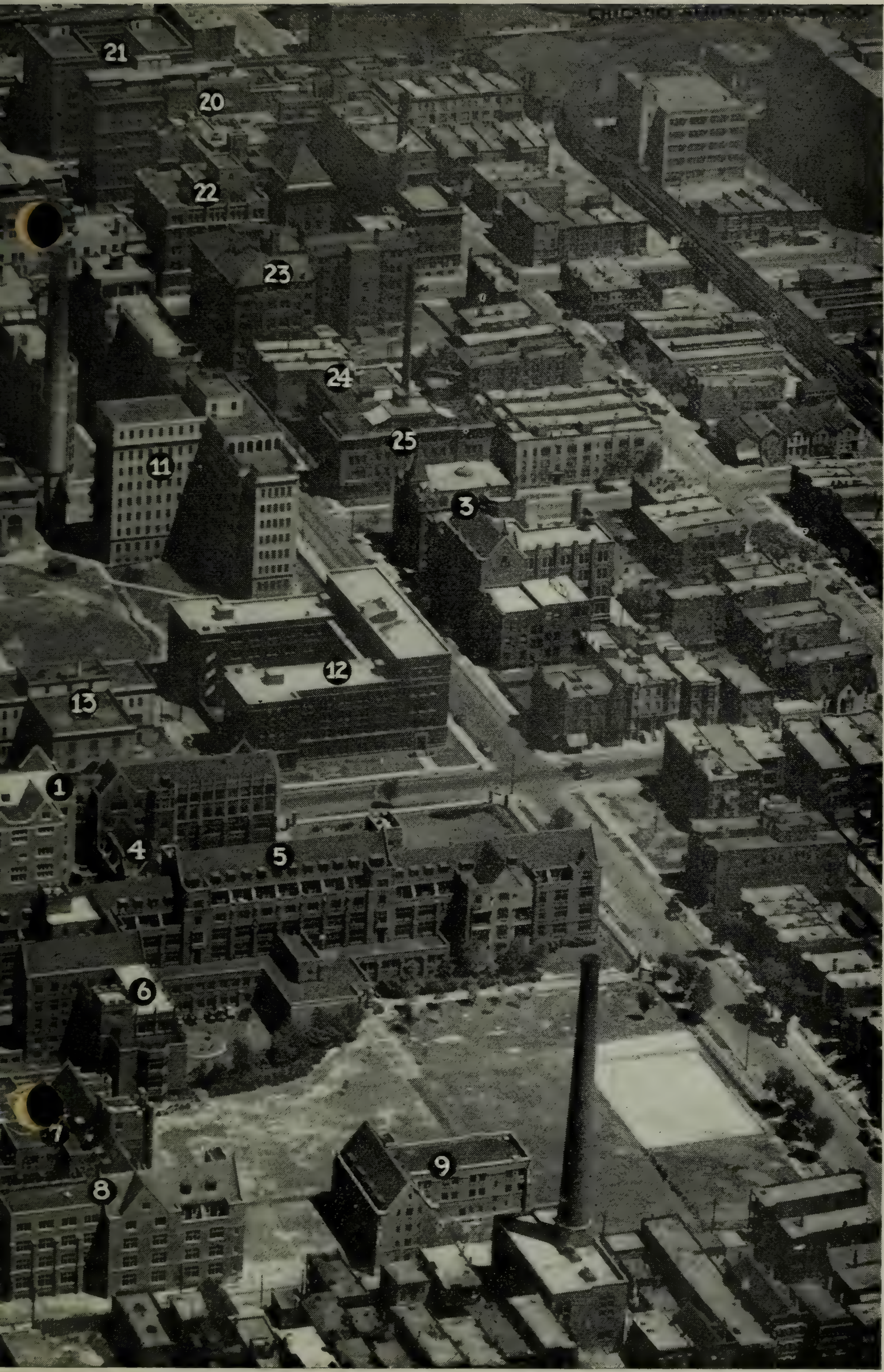
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COLLEGE OF PHARMACY

[Chicago College of Pharmacy 1859-1896]

Announcement for
1934-35

[Seventy-fourth Annual Announcement]

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1934/35

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COLLEGE CALENDAR

First Semester

1934

Sept. 24-29, Monday-Saturday	Special examinations.
Oct. 1, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Oct. 2, Tuesday, 8 A.M.	Instruction begun.
Nov. 28, Wednesday, 12 M.	Thanksgiving recess begun.
Dec. 3, Monday, 8 A.M.	Instruction resumed.
Dec. 22, Saturday, 12 M.	Holiday recess begun.

1935

Jan. 3, Thursday, 8 A.M.	Instruction resumed.
Jan. 28, Monday	Semester examinations begun.
Feb. 2, Saturday	Semester examinations ended.

Second Semester

Feb. 4, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Feb. 5, Tuesday, 8 A.M.	Instruction begun.
Apr. 18, Thursday, 5 P.M.	Easter recess begun.
Apr. 22, Monday, 8 A.M.	Instruction resumed.
May 23, Thursday	Final examinations begun.
May 28, Tuesday	Final examinations ended.
June 6, Thursday	Class day and alumni meeting.
June 7, Friday	Commencement exercises.

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SAMUEL SHKOLNIK, Ph.G., LL.M., *Instructor in Pharmacy*
PAUL DAVID CARPENTER, Ph.G., B.S., *Instructor in Materia Medica and Botany*
JOHN AUGUST DORJAHN, Ph.G., *Instructor in Pharmacognosy*
ESTHER MEYER, Ph.G., M.S., *Instructor in Bacteriology*
RAY ARTHUR PATELSKI, M.S., *Instructor in Chemistry*

Assistants

JOSEPH CHARLES OCENASEK, Ph.G., B.S., *Assistant in Pharmacy*
LAWRENCE TEMPLETON, Ph.C., M.S., *Assistant in Pharmacy*
ERNST RUDOLF KIRCH, Ph.C., B.S., *Assistant in Chemistry*
LORENZE BLOUGH EYER, Ph.C., B.S., *Assistant in Materia Medica and Botany*
PAUL GOTFRIED SODERDAHL, Ph.C., M.S., *Assistant in Chemistry*
MARION KASBEER, B.S., *Assistant in Chemistry*
RAYMOND SIGFRID ADAMSON, Ph.C., *Assistant in Materia Medica and Botany*
GERSTON BRUCH, Ph.C., *Assistant in Materia Medica and Botany*
MAX WAYTZ, Ph.C., *Assistant in Pharmacy*
BERNARD BENJAMIN BRODY, Ph.C., *Assistant in Pharmacy*
SOLOMON GERSHON, Ph.C., *Assistant in Chemistry*
WILLIAM ROBERT COLLINS, Ph.C., *Assistant in Pharmacy and Assistant Pharmacist in the Drug Room*

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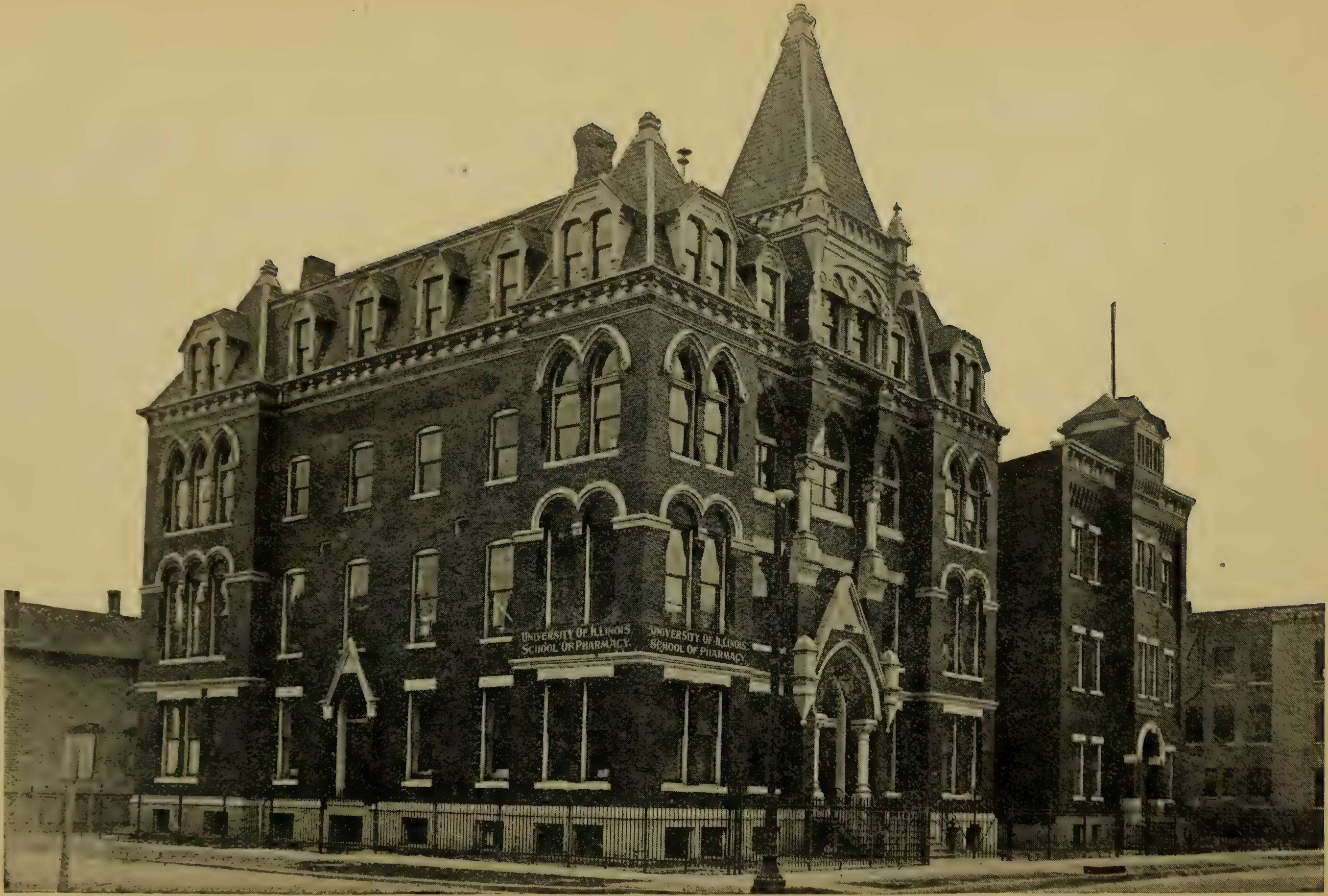
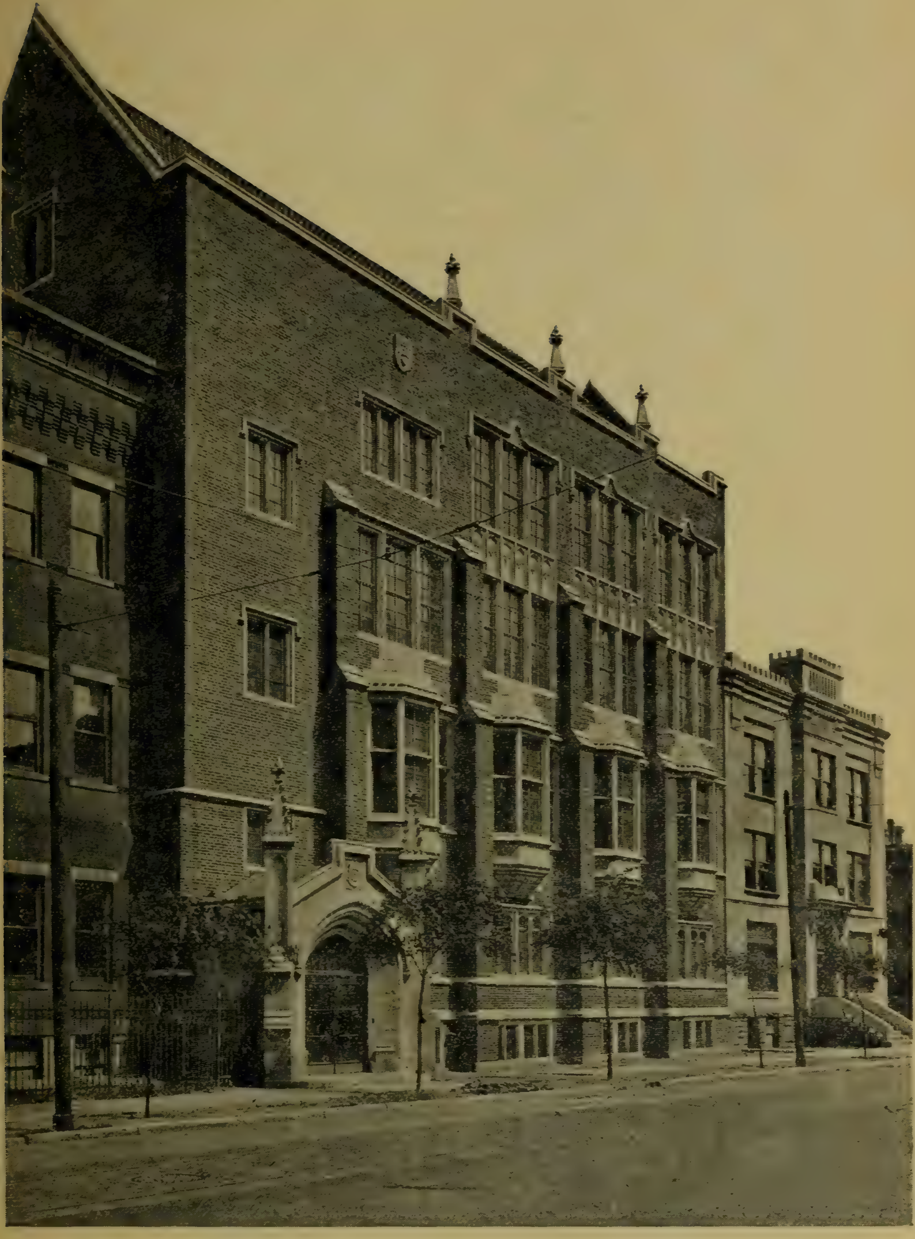
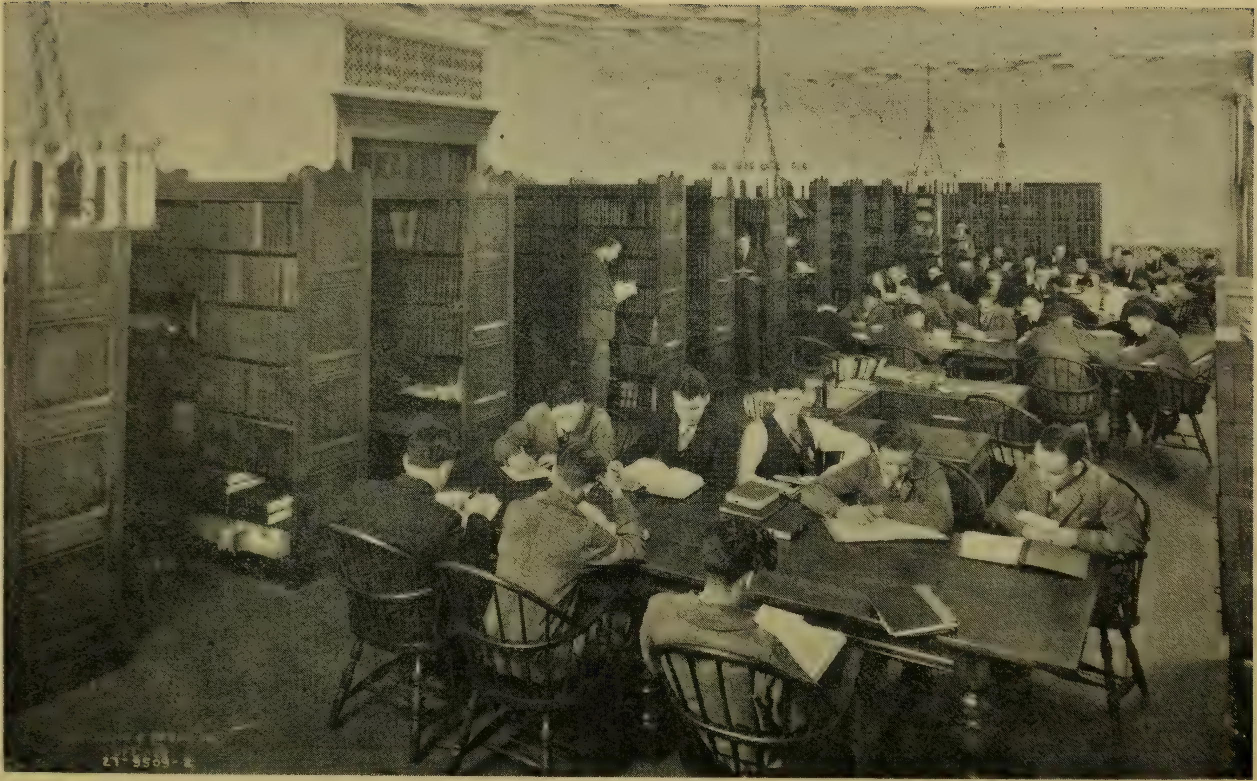
[1] During the session of 1933-34 the instruction in physiology was given by the Department of Physiology in the College of Medicine.


UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.
UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.

THE NORTH BUILDINGS



The New Building and the South Building



LIBRARY

THE COLLEGE OF PHARMACY

History

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry, and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the trustees and officers of the University have had the assistance of an advisory board of pharmacists nominated by the pharmacists of the state, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

Location

The location of the College of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of 280 feet on Wood Street and 124 on Flournoy Street.

Buildings and Equipment

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, a physics laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

LECTURE ROOMS.—There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

LABORATORIES.—Eleven laboratories having a total capacity of 725 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air. In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. Machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

LIBRARY.—The Library contains over six thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files

of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

Museum.—The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens. Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

Students' Rooms.—Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

Requirements for Admission

Applicants for admission to the College of Pharmacy of the University of Illinois must present satisfactory evidence of five years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives (not more than 4 units from non-academic subjects)	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (including algebra and trigonometry)	5

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected. As desirable electives the following are recommended: accountancy, history, zoology, and economics.

Preference to Illinois Residents.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

Non-Illinois Students.—All applicants for admission, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade; e.g., in a system of A, B, C, and D, with D as the passing grade, the average must be C.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

STATE QUALIFYING CERTIFICATE.—The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school, and blanks will be supplied by the school for the convenience of students in making this application.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The candidate for the degree of Pharmaceutical Chemist must be twenty-one years of age, and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

Students entering in 1932 or thereafter will receive the degree of Bachelor of Science in Pharmacy upon successfully completing the prescribed course.

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree. (The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor but passing; E, failure.) He must also have shown evidence of good moral character and have paid all indebtedness to the University.

Graduation With Honors

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register

by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

Fees and Expenses

ILLINOIS STUDENTS

	Sophomore Year (4-year course)		*Junior Year* (4-year course)		*Senior Year* (3-year course)	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[2]	23.00	29.00	36.00	27.00	35.00	31.00
Graduation fee	.....	.....	.....	.....	.....	10.00
	$83.00	$79.00	$86.00	$77.00	$85.00	$91.00

NON-ILLINOIS STUDENTS

Non-Illinois students pay fees as indicated above except that the tuition fee is $75.00 each semester.

ADDITIONAL FEES.—Duplicate diploma, $10. Original transcript of record, $1;[3] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation fees.

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[1] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

[2] The laboratory fee covers all drugs, chemicals, and other material consumed by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[3] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

SERVICE CHARGE FOR DEFERRED FEES.—Under certain conditions, students may arrange for the payment of their fees in installments, in which case a service charge of ten per cent of the amount not paid on registration days is assessed.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The new ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

GENERAL ASSEMBLY SCHOLARSHIPS.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

STATE MILITARY SCHOLARSHIPS.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a school of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a school of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

Ebert Loan Fund

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount now in the fund is $1,948.25. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Prizes

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Herman Elich, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

PEDIGO PRIZE.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumna of the College offers a prize of twenty-five dollars to the senior student who attains the highest average in Materia Medica.

LAMBDA KAPPA SIGMA KEY.—Gamma Chapter of Lambda Kappa Sigma pharmaceutical sorority offers a prize, consisting of a key, to the member of the sorority who obtains the highest average in the entire course leading to the degree.

Organizations

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

Phi Chapter of Rho Chi, national honorary pharmaceutical society, organized to promote the advancement of the pharmaceutical sciences, is located at the College. Meetings for the discussion of the pharmaceutical sciences are held at stated times during the session. Elections to the society are held annually. Students who have completed 75 hours of scholastic work and have attained an average of at least 85 per cent or its equivalent are eligible for membership.

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

For further information or for a matriculation blank, address

THE DEAN, COLLEGE OF PHARMACY
715 South Wood St., Chicago, Ill.

THE THREE-YEAR CURRICULUM

This course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

(The first year of this three-year curriculum was offered for the last time in 1931-32, and the second year was offered for the last time in 1933-34.)

MATERIA MEDICA AND BOTANY

Professor Day, Professor Gathercoal, Assistant Professor Wirth, Miss Meyer, Mr. Dorjahn, Mr. Carpenter, Mr. Adamson, Mr. Eyer, Mr. Bruch

First Year

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Second Year

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester. Professor Day

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester. Mr. Dorjahn, Mr. Bruch

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Day

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.
Mr. DORJAHN, Mr. BRUCH

Third Year

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. EYER

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.
Professor DAY, Assistant Professor WIRTH, Mr. DORJAHN,
Mr. BRUCH, Mr. EYER

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and micro-chemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester.
Assistant Professor WIRTH, Mr. ADAMSON

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Mr. WEBSTER,
Dr. POWERS, Mr. PATELSKI, Mr. KIRCH, Mr. SODERDAHL,
Miss KASBEER, Mr. GERSHON

First Year

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester.

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester.

Second Year

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the

U.S.P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.
Professor Clark, Mr. Gershon

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester. Assistant Professor Davis

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.
Professor Clark, Mr. Gershon

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Clark, Assistant Professor Davis

Third Year

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First Semester. Professor Clark

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester. Mr. Webster, Mr. Patelski, Miss Kasbeer

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.
Mr. Webster, Mr. Patelski, Miss Kasbeer

PHARMACY

Professor Snow, Assistant Professor Terry, Mr. Martin, Mr. Morrison,
Mr. Emig, Mr. Ocenasek, Mr. Shkolnik, Mr. Waytz,
Mr. Reifler, Mr. Templeton, Mr. Brody,
Mr. Collins

First Year

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Second Year

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Mr. MARTIN, Mr. OCENASEK

Third Year

10. *Operative Pharmacy.*—Three lectures and recitations and two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) First semester. Professor SNOW, Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ, Mr. TEMPLETON

11. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) First semester.
Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ, Mr. TEMPLETON

12. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) Second semester.
Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ, Mr. TEMPLETON

13. *Advanced Dispensing.*—Three lectures and recitations, two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) Second semester. Professor SNOW, Assistant Professor TERRY, Mr. EMIG, Mr. WAYTZ, Mr. TEMPLETON

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years. Mr. MORRISON, Mr. COLLINS

SUMMARY OF THE THREE-YEAR CURRICULUM

First Year

(Not offered after 1931-32)

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Lab.		
Pharmacy 1, 2, and 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica and Botany 1	3	3	6	4
Total for semester	14	10	24	17

Second Semester

Pharmacy 4 and 5	4	3	7	5
Chemistry 3 and 4	4	4	8	5
Materia Medica and Botany 2 and 3	4	6	10	6
Total for semester	12	13	25	16

Second Year

(Not offered after 1933-34)

First Semester

Pharmacy 6 and 7	4	6	10	6
Chemistry 5 and 6	5	7	12	7
Materia Medica and Botany 4 and 5	4	6	10	6
Total for semester	13	19	32	19

Second Semester

Pharmacy 8 and 9	4	6	10	6
Chemistry 7 and 8	5	7	12	7
Materia Medica and Botany 6 and 7	4	6	10	6
Total for semester	13	19	32	19

Third Year

First Semester

Pharmacy 10 and 11	4	6	10	6
Chemistry 9 and 10	3	8	11	5
Materia Medica and Botany 8	3	9	12	6
Total for semester	10	23	33	17

Second Semester

Pharmacy 12 and 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica and Botany 9 and 10	3	6	9	5
Dispensary	..	3	3	1
Total for semester	8	23	31	15

Total semester hours in three years....103

Average number of clock hours a week a semester.... 29

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of work in a recognized college or university and consists of not less than 30 semester hours as specified on page 13 of this circular.

The first year of this curriculum as offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana is as follows:

Freshman Year

First Semester	Hours	*Second Semester*	Hours
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-0	Electives[1]	5
Physical Education		Physical Education	
Hygiene		Military (for men)	
Military (for men)			
Total	15	Total	15

MATERIA MEDICA AND BOTANY

Sophomore Year

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor Day, Professor Gathercoal, Mr. Carpenter

22. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.

Professor Gathercoal, Mr. Carpenter

Junior Year

31. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, including their titles, synonyms, definitions, collection, preservation, identification, standardization, therapeutic use, and dose. The vegetable drugs are classified according to botanical source and the animal drugs according to zoological source. The laboratory work includes a study of the crude drugs in whole and powdered form, leading to their recognition and the determination of their quality and purity by organoleptic, microscopic, and micro-chemical means. Two

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. Botany, Physiology, Physics, Bacteriology, and additional courses in chemistry are *not* accepted.

lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. *Prerequisite:* Plant Histology course 22. Assistant Professor WIRTH, Mr. DORJAHN, Mr. BRUCH

32. *Pharmacognosy.*—A continuation of Course 31. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.
Assistant Professor WIRTH, Mr. DORJAHN, Mr. BRUCH

34. *Physiology.*—A general course in physiology with instruction in caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Dr. VISSCHER and staff

Senior Year

41. *Bacteriology.*—Characteristics of bacteria, yeasts, and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants, and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.

42. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.

44. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, based upon their important constituents. The laboratory work includes the micro-isolation of the constituents from drug material and the identification of these constituents by microscopical and micro-chemical means. The groups studied include carbohydrates, mucilages and gums, glucosides, alkaloids, fixed oils, volatile oils, oleoresins, resins, balsams, tannins, phloroglucinol derivatives, enzymes, hormones, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First or second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.

46. *Microscopy of Foods.*—Optional. Should be elected simultaneously with Chemistry course 44. May be elected in lieu of Pharmacognosy course 44 only by special permission of the head of the department. A microscopical study of foods including cereals and cereal products, spices and condiments, oil seeds and oil cakes, legumes, nuts, fruit and fruit products, vegetables, tea, coffee, cocoa, etc., including their identification and the determination of their quality and purity by microscopical means. Special reference will be made to legal standards governing these foods. Food products purchased in the open market will be brought to the laboratory for examination. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.

CHEMISTRY

Sophomore Year

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application

of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. (Required of all students.) Two one-hour class periods and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. Professor Clark, Mr. Clarke, Mr. Kirch

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four one-hour class periods and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.
Professor Clark, Assistant Professor Davis, Mr. Soderdahl

24. *General Physics.*—A general discussion of the fundamental principles of mechanics, heat, and sound. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) Second semester. Dr. Powers, Mr. Soderdahl

Junior Year

31. *Organic Chemistry.*—This course is a continuation of Chemistry 22 but is devoted almost entirely to the aromatic compounds. As in Chemistry 22, pharmaceutical applications are emphasized in both the theoretical and the laboratory work. The composition of volatile oils and the nature of their most important constituents are fully discussed. Alkaloids and related substances are extensively studied as to their constitution and its relationship to chemical and physiological action. The laboratory work is devoted to the preparation of typical substances, examination of U.S.P. products, analysis of drugs, etc. Three lectures or recitations and one four-hour laboratory period each week. (4 semester hours, 7 clock hours.) First semester.
Professor Clark, Assistant Professor Davis, Mr. Soderdahl

. 33. *General Physics.*—A continuation of the discussion of the principles of physics as related to the phenomena of electricity, magnetism, and light. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) First semester Dr. Powers, Mr. Soderdahl

32. *Quantitative Analysis.*—The theories and technique of gravimetric and volumetric analysis are taught in this course. Whenever possible the methods of the U.S.P. are used to illustrate their application and pharmaceutical or medicinal products are used as material for practical examination. Three lectures or recitations and two three-hour laboratory periods each week. (5 semester hours, 9 clock hours.) Second semester.
Professor Clark, Mr. Clarke, Mr. Gershon

Senior Year

41. *Drug Assaying.*—A study of the principles and methods of drug standardization applied to substances included in the U.S.P. The course includes the preparation and standardization of volumetric solutions; assays of alkaloid

bearing drugs, resinous drugs, essential oils, aldehydes, phenol, and nitrites; the determination of halogen in organic compounds, alcohol in pharmaceutical preparations, acid, saponification, and iodine value of fats, congealing point, refractive index, specific rotation, and kinematic viscosity. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

43. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 22 and 31, indicating the relationship between their chemical constitution and physiological action. Two lectures or recitations each week. (2 semester hours, 2 clock hours.) First semester.

42. *Advanced Drug Assaying.*—A continuation of the study of drug standardization methods as applied to commercial mixtures of medicinal chemicals, proprietary medicines, insecticides, pills, tablets, and enzymes. The quantitative methods of urine and blood analysis will be studied. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

44. *Food Analysis.*—Optional. May be elected in place of Chemistry course 42 with permission of the head of the chemistry department. Offered to classes of six or more students. A study of the principles and methods of food analysis. Samples of food products will be purchased and subjected to physical and chemical examination for the detection of preservatives, added coloring, metallic poisons, and foreign substances. The chemical and physical constants of common food substances will be determined and compared with the state and federal requirements for these substances. Bottled beverages, canned vegetables, flavoring extracts, milk, butter, salad oils, table syrups, ice cream, baking powder, candy, and other food products will be examined. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

46. *Synthesis of Drugs.*—Optional. May be elected in place of Chemistry course 42 by permission of the head of the chemistry department. Offered to classes of six or more students. A continuation of the study of organic chemistry and the application of the type reactions to the manufacture of organic medicinal chemicals and their intermediates. Barbital, clinchophen, acetphenetidine, phenolphthalein, tryparsamide, hexylresorcinol, guaiacol, methylene blue, or others may be selected in consultation with the instructor. Reference to the original work on the substance elected is encouraged. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

PHARMACY

Sophomore Year

21. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. SHKOLNIK, Mr. BRODY

23. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 21. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester. Mr. Shkolnik, Mr. Brody

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester. Mr. Emig, Mr. Shkolnik, Mr. Brody

22. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Snow, Mr. Shkolnik, Mr. Brody

24. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one three-hour laboratory period of three hours each week. (1 semester hour, 4 clock hours.) Second semester. Mr. Shkolnik, Mr. Brody

Junior Year

31. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.
Professor Snow, Mr. Martin, Mr. Morrison, Mr. Ocenasek

33. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.
Mr. Martin, Mr. Ocenasek

32. *Organic Pharmacy.*—A continuation of Pharmacy 31. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Snow, Mr. Martin, Mr. Morrison, Mr. Ocenasek

34. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two

laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

Senior Year

41. *Theory of Advanced Organic Pharmacy.*—A lecture course on the animal and plant drugs of the Pharmacopoeia and National Formulary as related to the practice of pharmacy. This includes their sources, methods of preparation, active constituents, therapeutic uses, doses, and antidotes if poisonous. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) First semester. *Prerequisite:* All sophomore and junior pharmacy courses, including arithmetic.

43. *Advanced Operative Pharmaceutical Laboratory.*—The manufacture of complex pharmaceuticals, official and unofficial. Assayed tinctures, resins, granular effervescent salts, etc. Some time is devoted to the manufacture of cosmetics. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First semester.

45. *Seminar in Library Practice.*—A study of pharmaceutical literature, scientific and commercial. Library arrangement and practice. Preparation of a series of reports covering selected topics. One recitation each week. (1 semester hour, 1 clock hour.) First semester.

42. *Theory of Advanced Organic Pharmacy.*—A lecture course, continuation of course 41. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) Second semester.

44. *Advanced Dispensing Laboratory Practice.*—Compounding technics for the dispensing of complex prescription formulas. The manufacture of difficult extemporaneous preparations and the study of incompatible prescriptions with compounding practice. Pills, suppositories, cachets, tablet triturates, etc. Two laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester.

46. *Seminar in Commercial Pharmacy.*—A discussion of commercial pharmaceutical practices. (1 semester hour, 1 clock hour.) Second semester.

48. *Business Law.*—A presentation of the fundamentals of commercial laws with special reference to their application to the retail drug business; principles of contracts, leases, agency, corporations, partnerships, bills and notes, chattel mortgages, conditional sale agreements, consignments, sales, bulk sales, and insurance. A discussion of federal, state, and local laws pertaining to the practice of the profession of pharmacy and to the conduct of a retail drug store; pure food and drug laws and regulations; poison, narcotic, and liquor laws and regulations; pharmacy ownership laws; common law and statutory rights, privileges, duties, and liabilities of registered pharmacists, assistant pharmacists, pharmacy apprentices, employers, and employees; and matters of reciprocity. Trade marks, copyrights, and patents relating to pharmaceutical preparations, apparatus, and processes. One hour lecture each week. (1 semester hour, 1 clock hour.) Second semester.

50. *Hospital Practice.*—Affiliated with the College is the Research and Educational Hospital where each candidate for the degree must work not less than 50 clock hours. This requirement may be met during the junior and senior years. The candidate prepares pharmaceutical preparations and compounds prescriptions from the physicians of the clinics and hospital. (1 semester hour.)

SUMMARY OF THE FOUR-YEAR CURRICULUM

(For Freshman Year see page 25.)

Sophomore Year
(Offered in 1932-33 and thereafter)

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Lab.		
Pharmacy 21, 23, 25	7	3	10	8
Chemistry 21	2	6	8	4
Botany 21	3	3	6	4
Total for semester	12	12	24	16

Second Semester

	Lec. & Rec.	Lab.	Total clock hours	Total semester hours
Pharmacy 22, 24	3	4	7	4
Chemistry 22	4	4	8	5
Physics 24	3	3	6	4
Histology 22	2	6	8	4
Total for semester	12	17	29	17

Junior Year
(Offered in 1933-34 and thereafter)

First Semester

	Lec. & Rec.	Lab.	Total clock hours	Total semester hours
Pharmacy 31, 33	4	6	10	6
Chemistry 31	3	4	7	4
Pharmacognosy 31	2	6	8	4
Physics 33	3	3	6	4
Total for semester	12	19	31	18

Second Semester

	Lec. & Rec.	Lab.	Total clock hours	Total semester hours
Pharmacy 32, 34	4	6	10	6
Chemistry 32	3	6	9	5
Pharmacognosy 32	2	6	8	4
Physiology 34	3	0	3	3
Total for semester	12	18	30	18

Senior Year
(Offered in 1934-35 and thereafter)

First Semester

	Lec. & Rec.	Lab.	Total clock hours	Total semester hours
Pharmacy 41, 43, 45	4	6	10	6
Chemistry 41, 43	3	8	11	5
Materia Medica and Botany 41	3	9	12	6
Total for semester	10	23	33	17

Second Semester

	Lec. & Rec.	Lab.	Total clock hours	Total semester hours
Pharmacy 42, 44, 46, 48	5	6	11	7
Chemistry 42	1	8	9	3
Materia Medica and Botany 42, 44	4	6	10	6
Dispensary	0	3	3	1
Total for semester	10	23	33	17
Total semester hours in the three years				103
Included in the pre-pharmacy year				30
Total semester hours for the degree				133

DEGREES CONFERRED, 1934

Degree of Pharmaceutical Chemist

Conferred in February, 1934

William V. Abramchik
Chester John Blinstrup
Walter Alfred Cassarella
Julian Claitman
Sidney Crane
Clarence Anthony Dettloff
Benny Helfer
Joseph Andrew Hula
Louis Kozak
Frank Valentine Krestan
Harriet Lescauski
Samuel Maurice Lieberman
Harold Ramon Morrison
Chester Stanley Pankros
Samuel Schwartz
Max Scher
Frank John VonZelewski
Mitchell Frank Zienty

Conferred in June, 1934

Irving Adler
Christopher Hollie Aiken
Clement Frederick Albrecht
Leland Burdette Alderson
Gustav Leon Anderson
Robert Louis Andro
Miriam Axelrod
Joseph Azukas
Stanley George Balchunas
Edward Benes
William Julian Bilek
Joseph Walter Borek
Wallace McNamee Bruso
Frank William Canedy
Paul John Cartwright
George Norbert Cervak
Anastasia Champagne
Arthur Rubin Chernoff
Arnold Carl Emil Christensen
Thaddeus James Chrzanowski
John Joseph Cihon
Arnold Manville Cohn
John Wesley Coonrad
Neil Curry
Harry William Dalburg
Victor Lee Davis
Martin Miller deLong
Edward H. Divine
Aaron Dorevitch
Royal S. Dudley
Ben Efrussy, with Honors
Harry Feldman
Daniel Fishman
Harry Philip Frank
Harold George Freyermuth
Edward Daniel Gajewski
Sister Anne Gallagher
Harry Gandell
Ernest J. Gerber
Arthur Paul Glowczewski
Isaac Alexander Goldenberg
Nathan Goldenberg
Joesph Greenspoon
Harold Paul Hagemeyer
William Frederick Hahn
John Daniel Harris
Florence Marie Hatter
Willard Franklin Heddles
Irving Heinrich
Samuel David Himelfarb
Marvel LeRoy Holstin
Delbert Louis Hook
Herman Giles Hopson
William Lincoln Hubbell
Nicholas Joseph Hulcziy
Andrew Vincent Indovina
Russell Lowell James
Walter Albert Jasien
David Joseph
George Albert Jundt
Joseph Paul Kalasinski
Louis Kanter
Leon Kaplan
Harry Irwin Kaufman
Forrest Marvin Klick
Robert L. Kniss
Frank Joseph Korinek
Ervin Frank Kowalski
Alex Kritzman
Irwin Lustgarten Krohn
Wilbur Joseph Kuhn
Robert Francis Kunke
Milton M. Kurkov
Henry Julian Kutza
Alden George Laufer
Robert L. Leach
Albert Lewis
Evan Robert Lewis
Sam H. Linetzky
Howard Arthur Lowy
Paul C. Lundholm
Clifford H. McDaniel
Eugene Joseph McFadden
Lee Lester Marcus

I. Irwin Millard
Eleanor Dorothy Mioduszewski, with Honors
William Douglas Morgan
Anthony Carl Mosteika
Anthony Jacob Mueller
Fred Thomas Mukensnable
Frank Joseph Muno
Irving Roussel Naviaux
Mitchell Nieman
Aloysius John Niezgodzki
Mathias Joseph Oehlberg
Richard John Ostry
LaFayette Parrish, Jr., with Honors
Louis Picker
Irving Plotkin
Lucille Potuto
Thomas A. Reed, with Honors
Nadejda Remenchik
Gerald William Render
Louis Reznick
Frederick M. Ritterbusch
Roderick M. Robertson
Norman Rochell
David R. Rosenfeld
William Clinton Ross
Raymond F. Ruemmler
Carl A. Sand
Murray Matt Scharf
June Schiff
Hyman Schwartz
John Seremak
Roy Edward Seyffert
V. Reed Shaw
Harry Rohde Sheagren
Carl Jay Shulman
George Frank Sima
Louis Frank Sladky
Rafael Umberto Spiteri
Adolph E. Stein
Frederick Donald Strout
George Edward Thornton
Stanley Joseph Toporek
Otto Trejbal
Anthony Tsimolakis
Charles S. Turner
Joseph Rataj Vesely
Ruth Warsaw
James Weinberg
Irving Morton Withall
Bertha Ophelia Woods
Morry Worshill
George Matthew Worthley
David Zitnick
Julian Zweig

Certificate in Pharmacy

Conferred in June, 1934

Students who have completed the course for Pharmaceutical Chemist in the College of Pharmacy of the University of Illinois and who will be entitled to the Degree upon attaining the age of twenty-one years.

Harry William Adams
Hyman Africk
George Edward Bruha
Leonard Denenholz
Max Drexler
Sam Drexler
Henry Gardner
Aaron A. Goldin
Talmage W. Kisner
Arthur Leonard Lampert
Helen Josephine Pilkis
Meyer Scholnick
Leon Zee Seltzer
Nathan Stein
Joseph Francis Valvoda, Jr.
Melvin Witkin
Theodore Clarence Zeman

PRIZES, 1934

Samuel L. Antonow Prize in Pharmacy	Eleanor D. Mioduszewski
Herman Elich Prize in Chemistry	LaFayette Parish, Jr.
William Gray Prize for Dispensing	George Edward Thornton
Hodel-Saltiel-Hodel Prize for General Scholarship	Ben Efrussy
Lambda Kappa Sigma Key in Pharmacy	Eleanor D. Mioduszewski
Lee M. Pedigo Prize in Materia Medica	Arnold C. E. Christensen
Alice E. Pelikan Prize in Materia Medica	Ruth Warsaw
Andrew Sherer Prize in Pharmacy	Thomas A. Reed

REGISTER OF STUDENTS, 1933-34

Candidates for the Degree of Bachelor of Science in Pharmacy

Sophomores

Armon, Joseph P., Chicago
Bitautas, Walter A., Kenosha, Wisconsin
Crowder, Illinoia Cleia, Highland
Elich, Robert William, B.S., Chicago
Elkin, Morris H., Chicago
Endler, Abraham, Chicago
Fetzer, Leland Everett, Rockford
Finkelstein, Jerome, Chicago
Fisher, Raymond, Chicago
Fridrich, Raymond Joseph, Mt. Carmel
Gher, Walter Allen, Allendale
Hoff, William A., Chicago
Holtz, Marshall, Chicago
Horowitz, Nathan, Chicago
Howell, Kenneth Lyle, Joliet
Hubler, Dorothy Helen, Chicago
Jaruszewski, Edward John, Chicago
Kagalnick, Norman, Chicago
Kaski, Ignatius Joseph, Chicago
King, Edward Ernst, Chicago
King, Elmer Guenther, Chicago
Klemme, Leonard Carl Albert, Elmhurst
Kolka, Mildred Anne, Cicero
Kolomatsky, Constantine George, Chicago
Krupinski, Helen Marcia, East Chicago, Indiana
Kudolla, Charles Rudolph, Chicago
Levow, Harold Arnold, Chicago
Mitacek, Jerome Martin, Chicago
Mizen, Michael Richard, Chicago
Mozenter, Carl George, Chicago
Mrazek, James Edward, Chicago
Oles, Alice Josephine, Cicero
Pirolli, Edward N., Cicero
Pomex, Ethel, Chicago
Potenza, Lawrence, Chicago
Przudzik, Lucille, Chicago
Rimkus, Joseph, Chicago
Rogowski, Edward Casimir, Chicago
Rosen, Karl Blei, Chicago
Rudzinski, Leonard Joseph, Chicago
Schallman, J. Leonard, Chicago
Schauer, Arthur Albert, Chicago
Schwartz, Irving, Chicago
Seamans, Bernard Irving, Chicago
Sharka, Walter Joseph, Chicago
Silver, Herman, Chicago
Silverman, Morris Bernard, Chicago
Solar, Elmer William, Cicero
Sonshine, Samuel, Chicago
Staswick, Estelle, Chicago
Steveley, Robert Geymer, Chicago
Streit, Rita, Chicago
Strout, Charles William, LaSalle
Taylor, James Willard, Gillespie
Thompson, William, Waterman
Threlkeld, Victor Lennes, Mt. Vernon
Tuscher, Ethel Louise, Meredosia
Volkenant, Adam Everett, Ottawa
Weisberg, George, Chicago
Weiss, Alvin Clarence, Chicago
West, Franklin Basil, Belvidere
West, Stanley Miles, Belvidere
Witt, Irving Robert, Chicago

Juniors

Androfsky, Sam Roy, Chicago
Chadnowsky, Sam, Chicago
Chlebik, Sister Mary Hiltrudis, Joliet
Danish, Abe Albert, Chicago
Finkelstein, Harold, Chicago
Higgins, Sister Mary Evarista, Joliet
Jacobson, Mandel Max, Chicago
Krebs, Sister Mary Ethelberta, Joliet
Kuhrt, Harry Karl, Ph.C., Evanston
Lescher, Francis Xavier, Chicago
Madej, Walter Andrew, Chicago
Putyra, Anne Frances, Chicago
Rayman, Harry Max, Chicago
Rosen, Abe Moe, Chicago
Ruttenberg, Sam, Chicago
Silvers, Joseph, Chicago
Snyder, Roy Kenneth, B.S., Chicago
Taylor, Sidney Asher, Chicago
Vicher, Edward Ernest, Berwyn
Zienty, Ferdinand Benjamin, Chicago

Candidates for the Degree of Pharmaceutical Chemist

Juniors

Berman, Esther, Chicago
Broskuf, Maxwell, Chicago
Burger, David Theil, Elgin
Cohen, Marvin Harvey, Chicago
Covalt, Reece Carlyle, Mattoon
Duderstadt, Peery August, Chicago
Feinberg, Leonard Harold, Chicago
Gelsomino, Lazri, Chicago
Giacinti, Ann Sophia, Maywood
Goodman, Arthur Ira, Chicago
Grams, Edward Thomas, Chicago
Green, Willard, Chicago
Hagal, Florian Adam, Chicago
Harris, Kenneth Herbert, Chicago
Herbstman, Felix, Chicago
Hetherington, Raymond Francis, LaSalle
Hilberg, Herbert Stanley, Chicago
Honorowski, Sister M. Getulia, Chicago
Horacek, Jaroslav Jerry, Chicago
Horvath, Bela, Chicago
Indovina, Anthony Andrew, Chicago
Infusino, Alfred Rosario, Chicago
Jaglinski, Harry Walter, Chicago
Jankauskas, Edward Charles, Waukegan
Janosik, Lillian Ella, Cicero
Kazer, Edwin Franklin, Chicago
Koepke, Roland Frank, Batavia
Ksycki, Bernard Henry, Chicago
Latelle, Joseph Louis, Chicago
Lawrence, Victor Emanuel, Chicago
Maggio, Peter, Chicago
Pertzovsky, Louis, Chicago
Phelan, Harry John, Lincoln
Polski, Leon Thomas, Chicago
Prybylo, Chester Louis, Chicago
Pulik, Harry, Chicago
Rapp, Nathan, Chicago
Ravegnani, Anthony Daniel, Chicago
Rollinson, Stewart John, Joliet
Rosen, Ralph, Chicago

Rosenblatt, David Edmund, Chicago
Roth, Malvern Mack, Chicago
Singer, Harry Calvin, Chicago
Sommer, Robert Harry, Chicago
Stefanich, John Edward, Joliet
Stepek, Vivian Leona, Chicago
Sumner, John Robert, Bloomingdale, Michigan
Sweet, Jayson Jay, Chicago
Thompson, Clarence, Waterman
Tinaglia, Joe Peter, Chicago
Topf, Grace Ellen, Chicago
Toynton, Hollis John, Palatine
Traficante, Daniel, Chicago
Triscinzzi, Amideo R., Chicago
Vlack, Edward Frank, North Chicago
Warzecha, Joseph, Chicago
Wiltgen, Raymond John, Chicago
Wirkus, Sister M. Leonica, Chicago
Zeman, Beatrice, Cicero
Zeman, Robert Meyer, Chicago
Zuck, Floyd Stanton, Rockford
Zychowicz, Anthony Francis, Chicago

Seniors

Abramchik, William V., Chicago
Adams, Harry William, Chicago
Adler, Irving, Chicago
Africk, Hyman, Chicago
Aiken, Christopher Hollie, Thompsonville
Albrecht, Clement Frederick, Dakota
Alderson, Leland Burdette, Kinmundy
Anderson, Gustav Leon, Berwyn
Andro, Robert Louis, Chicago
Axelrod, Miriam B., Chicago
Azukas, Joseph, Chicago
Balchunas, Stanley George, Chicago
Barnett, Mary, Chicago
Benes, Edward, Chicago
Berman, Bernard B., Chicago
Bilek, William Julian, Chicago
Blinstrup, Chester John, Chicago
Blonder, Theodore Hyman, Chicago
Borek, Joseph Walter, Chicago
Bower, Milton Seymour, Chicago
Braverman, Herbert Bernard, Chicago
Bruha, George Edward, Cicero
Bruso, Wallace McNamee, Roscoe, California
Canedy, Frank William, Rock Island
Cartwright, Paul John, Chicago
Catelani, Alfred, Chicago
Cervak, George Norbert, Chicago
Champagne, Anastasia, Chicago
Chernoff, Arthur, Chicago
Chiaramonte, Anthony Charles, Chicago
Christensen, Arnold Carl Emil, Chicago
Chrzanowski, Thaddeus James, Chicago
Cihon, John Joseph, Chicago
Cohen, Minnie, Chicago
Cohn, Arnold Manville, Chicago
Coonrad, John Wesley, Woodstock
Crane, Sidney, Chicago
Curry, Neil, Chicago
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Davis, Victor Lee, Marion
deLong, Martin Miller, Chicago
Denenholz, Leonard, Chicago
Dettloff, Clarence Anthony, Chicago
DiGilio, Maria Raphaella, Chicago
Divine, Edward H., Chicago
Dorevitch, Aaron, Chicago
Drexler, Max, Chicago
Drexler, Sam, Chicago
Dudley, Royal Sherwood, Chicago
Edwards, Gerald Gail, Kilbourne
Efrussy, Ben, Chicago
Feldman, Harry, Chicago
Fishman, Daniel, Chicago
Flanagan, Joseph James, Chicago
Frank, Harry Philip, Chicago
Freyermuth, Harold George, Muscatine, Iowa
Gajewski, Edward Daniel, Chicago
Gallagher, Sister Anne, Chicago
Gandell, Harry, Chicago
Gardner, Henry, Whiting, Indiana
Gerber, Ernest Joe, Springfield
Glaser, Edward Joseph, Chicago
Glowczewski, Arthur Paul, Chicago
Goldenberg, Isaac Alexander, Chicago
Goldenberg, Nathan, Chicago
Goldin, Aaron Archie, Chicago
Greenspoon, Joseph, Chicago
Hagemeyer, Harold Paul, Chicago
Hahn, William Frederick, Chicago
Harney, Martin Joseph, Chicago
Harris, John Daniel, Chicago
Hatter, Florence Marie, Cicero
Heddles, Willard Franklin, Chicago
Heinrich, Irving L., Chicago
Himelfarb, Samuel David, Chicago
Hoft, Robert William, Berwyn
Holstin, Marvel Leroy, Chicago
Hook, Delbert Louis, Lake Villa
Hopson, Herman Giles, Chicago
Hubbell, William Lincoln, Monticello
Hula, Joseph A., Chicago
Hulcziy, Nicholas, Chicago
Indovina, Andrew Vincent, Chicago
Jacob, Anthony, Chicago
James, Russell Lowell, Peoria
Jankowski, John Stanley, Chicago
Jasien, Walter Albert, Chicago
Joseph, David, Chicago
Jundt, George, Chicago
Kalasinski, Joseph Paul, LaSalle
Kanter, Louis, Chicago
Kaplan, Leon, Chicago
Karsa, Edward Abraham, Chicago
Kaufman, Harry Irving, Chicago
Kisner, Talmage Wilfred, Carmi
Klick, Forrest Marvin, Hampshire
Klima, Joseph, Chicago
Kniss, Robert Lee, Chicago
Korinek, Frank Joseph, Berwyn
Kot, Henry Charles, Chicago
Kowalski, Ervin, Chicago
Krestan, Frank Valentine, Chicago
Kritzman, Alex, Chicago
Krohn, Irwin Lustgarten, Chicago
Kuhn, Wilbur Joseph, Pana
Kukee, David, Chicago
Kunke, Robert Francis, Chicago
Kurkov, Milton, Chicago
Kutza, Henry Julian, Chicago
Lacey, John F., Chicago
Lampert, Arthur Leonard, Chicago
Lapofski, Sol, Chicago
Laufer, Alden George, Chicago
Leach, Robert Lafayette, Gentry, Arkansas
Lee, Frank, Chicago
Lentino, Anthony Joseph, Chicago
Leonard, Lena, Chicago
Lerner, Louis, Chicago
Lescauski, Harriet, Chicago
Lesinski, Edward Victor, Chicago
Lewis, Albert, Chicago
Lewis, Evan Robert, North Chicago
Lichtenstein, Abraham Harry, Chicago
Lieberman, Samuel Maurice, Chicago
Linetzky, Sam Harry, Chicago
Lowy, Howard Arthur, Chicago
Lundholm, Paul Chester, Moline
Lustig, Alfred, Chicago
McCannel, David Don, Chicago
McDaniel, Clifford H., Metropolis
McFadden, Eugene Joseph, Spring Valley
McKenna, Edward Joseph, Chicago
Madaj, Benjamin Frank, Chicago

Magid, Richard Kenneth, Chicago
Marcus, Lee Lester, Chicago
Millard, Isadore I., Chicago
Mioduszewski, Eleanor Dorothy, Chicago
Molas, Walter Anthony, Chicago
Morgan, William Douglas, Crystal Lake
Morrison, Harold Ramon, Chicago
Mosteika, Anthony Charles, Chicago
Mueller, Anthony Jacob, Chicago
Mukensnable, Fred, Chicago
Muno, Frank, Chicago
Naslund, Halger Carl, Chicago
Naviaux, Irving Roussel, Oak Park
Nieman, Mitchel, Chicago
Niemiec, Thaddeus Victor, Chicago
Niezgodski, Aloysius John, Chicago
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Pankros, Chester, Chicago
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Perrelli, Salvatore, Cicero
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Pilkis, Helen Josephine, Chicago
Plotkin, Irving, Chicago
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Remenchik, Nadejda, Chicago
Render, Gerald William, Peoria
Reznick, Louis, Chicago
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Robertson, Roderick Murch, Morrison
Rochell, Norman, Chicago
Rosenfeld, David, Chicago
Ross, William Clinton, Chicago
Ruemmler, Raymond F., Benton
Rutgard, Joseph, Chicago
Salamie, Nicholas, Chicago
Sand, Carl Albert, Beloit, Wisconsin
Scharf, Murray Matt, Chicago
Scher, Max, Chicago
Schiff, June, Chicago
Scholnick, Meyer, Chicago
Schwartz, Hyman, Chicago
Schwartz, Sam, Chicago
Seltzer, Leon Zee, Chicago
Selwitz, Harry, Chicago
Seremak, John, Chicago
Serpico, Dominick Peter, Chicago
Sevelow, Harry, Chicago
Seyffert, Harold George, Chicago
Seyffert, Roy Edward, Chicago
Shaw, V. Reed, Mattoon
Sheagren, Harry, Aurora
Shulman, Carl Jay, Chicago
Sima, George Frank, Berwyn
Sladky, Louis Frank, Chicago
Spiteri, Ralph Umberto, Chicago
Stein, Adolph, Chicago
Stein, Nathan, Chicago
Steinberg, Sam, Chicago
Strout, Frederick Donald, Chicago
Thornton, George Edward, Chicago
Toporek, Stanley Joseph, Chicago
Trejbal, Otto, Chicago
Tsimolakis, Anthony, Chicago
Turner, Charles Sam, Chicago
Valvoda, Joseph Francis, Chicago
Vesely, Joseph Rataj, Riverside
VonZelewski, Frank John, Chicago
Warsaw, Ruth, Chicago
Weinberg, James, Chicago
Weinstein, Max, Chicago
Weinstein, Meyer, Chicago
Whitelock, Leon Marshall, Karnak
Withall, Irving, Chicago
Witkin, Melvin, Joliet
Woods, Bertha Ophelia, Chicago
Worshill, Morry, Chicago
Worthley, George Matthew, Aurora
Zeman, Theodore Clarence, Chicago
Zitnick, David, Chicago
Zweig, Julian, Rochester, New York

Unclassified

Kirsh, Morris, Chicago

THE UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

(College of Physicians and Surgeons of Chicago 1881-1900)

Offers a five-year course (including one year of interne service in an approved hospital) leading to the degree of Doctor of Medicine. The degree of Bachelor of Science is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with an average of not less than 3.5 (about 83%) in all collegiate work.

For circular with detailed information address
The Dean, College of Medicine, University of Illinois
1853 West Polk Street, Chicago, Illinois

THE UNIVERSITY OF ILLINOIS
COLLEGE OF DENTISTRY

Offers a four-year course of instruction leading to the degree of Doctor of Dental Surgery. The degree of Bachelor of Science in Dentistry is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with the following prescribed distribution:

	Semester Hours
Chemistry (including 4 hours of organic chemistry)	12
Physics	6
Biology	6
English	6
Electives (exclusive of military, hygiene, and physical education)	30
Total	60

The next session begins October 1, 1934.

For circular with detailed information address
The Dean, College of Dentistry, University of Illinois
1838 West Harrison Street, Chicago, Illinois

UNIVERSITY OF ILLINOIS

Colleges and Schools at Urbana

COLLEGE OF LIBERAL ARTS AND SCIENCES.—General curriculum with majors in the humanities and sciences; specialized curricula in chemistry and chemical engineering; general courses preparatory to the study of law and journalism; pre-professional training in medicine, dentistry, and pharmacy.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION. — Curricula in general business, trade and civic secretarial service, banking and finance, insurance, accountancy, transportation, commercial teaching, foreign commerce, industrial administration, public utilities, and commerce and law.

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COLLEGE OF AGRICULTURE. — Curricula in agriculture, floriculture, general home economics, and nutrition and dietetics.

COLLEGE OF EDUCATION. — Curricula in education, agricultural education, home economics education, and industrial education. The University High School is the practice school of the College of Education.

COLLEGE OF FINE AND APPLIED ARTS.—Curricula in architecture, landscape architecture, music, and painting.

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SCHOOL OF JOURNALISM.—General and special curricula in journalism.

SCHOOL OF PHYSICAL EDUCATION.—Curricula in physical education for men and for women.

LIBRARY SCHOOL.—Curriculum in library science.

GRADUATE SCHOOL.—Advanced study and research.

Colleges in Chicago

COLLEGE OF MEDICINE.—Professional curriculum in medicine.

COLLEGE OF DENTISTRY.—Professional curriculum in dentistry.

COLLEGE OF PHARMACY.—Professional curriculum in pharmacy.

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ENGINEERING EXPERIMENT STATION
BUREAU OF BUSINESS RESEARCH
BUREAU OF EDUCATIONAL RESEARCH
STATE GEOLOGICAL SURVEY
STATE NATURAL HISTORY SURVEY
STATE WATER SURVEY

For general catalog of the University, special circulars, and other information, address

THE REGISTRAR, UNIVERSITY OF ILLINOIS,
URBANA, ILLINOIS

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1935/36

UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

Announcement for
1935-1936

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UNIVERSITY OF ILLINOIS

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

UNIVERSITY OF ILLINOIS CIRCULAR
Published four times a year in the months of March, June, July, and August, at Chicago, Illinois

VOL. XXI JULY, 1935 No. 3

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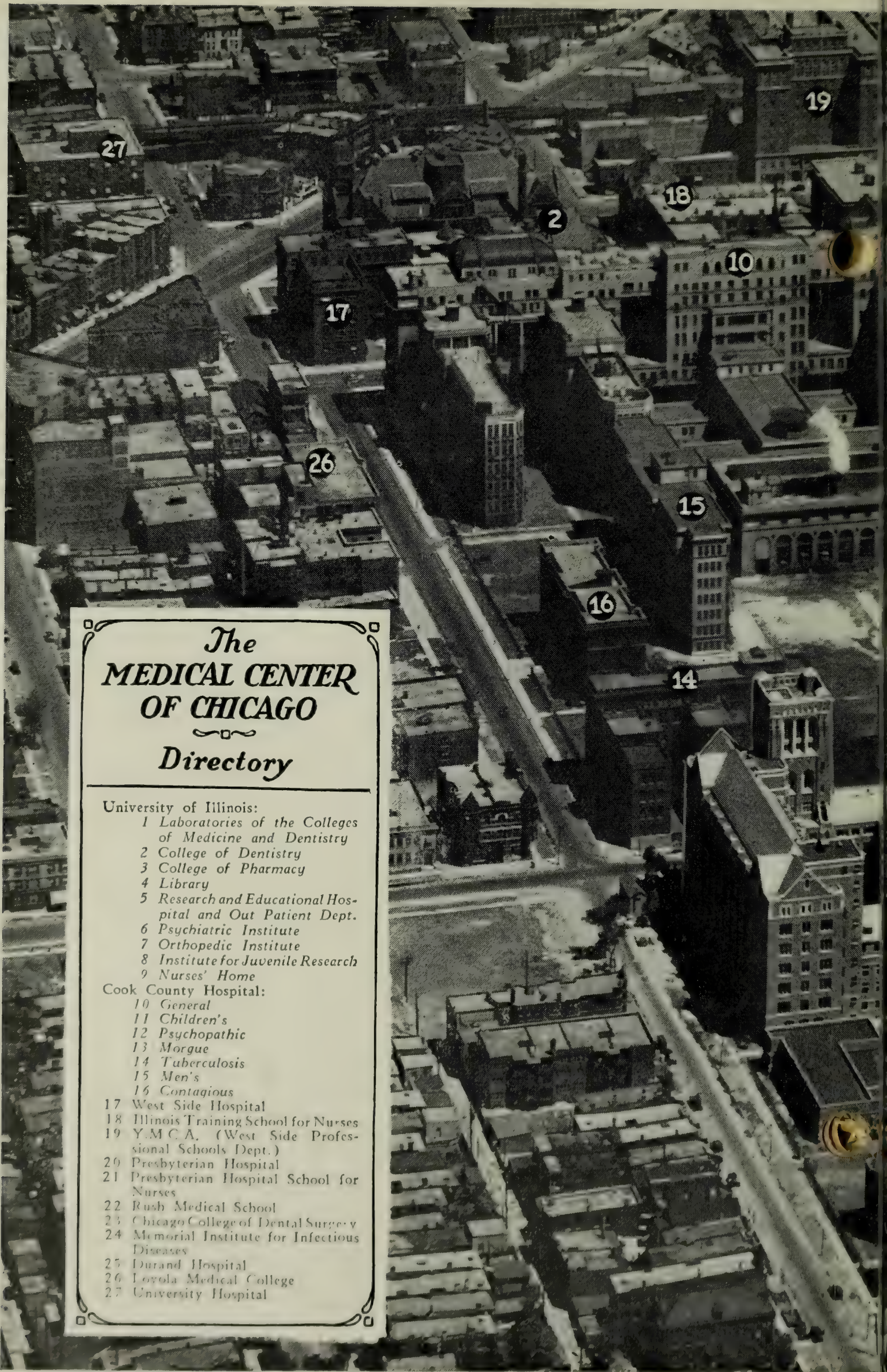


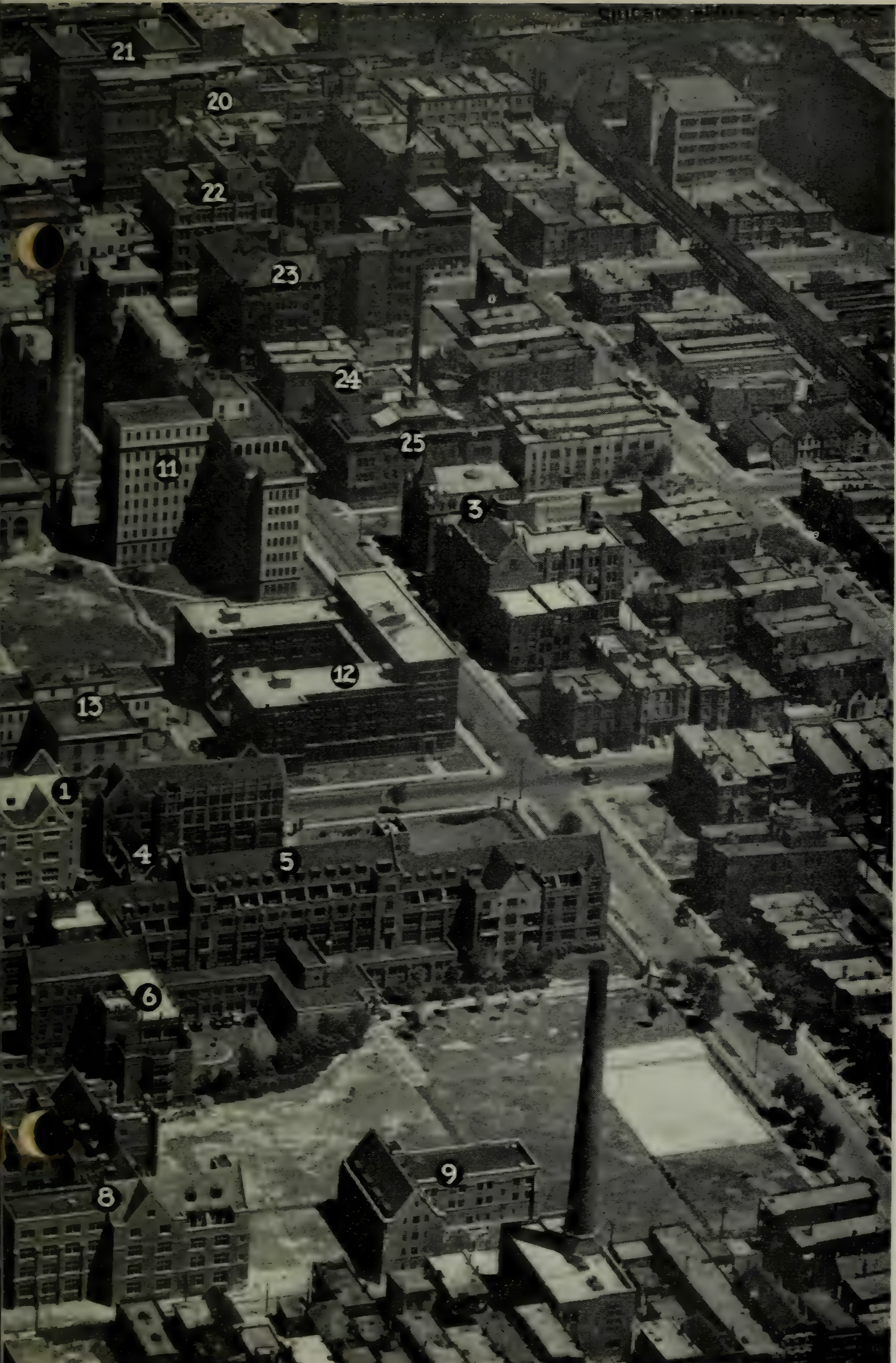
The
MEDICAL CENTER OF CHICAGO

Directory

University of Illinois:
- *1 Laboratories of the Colleges of Medicine and Dentistry*
- *2 College of Dentistry*
- *3 College of Pharmacy*
- *4 Library*
- *5 Research and Educational Hospital and Out Patient Dept.*
- *6 Psychiatric Institute*
- *7 Orthopedic Institute*
- *8 Institute for Juvenile Research*
- *9 Nurses' Home*

Cook County Hospital:
- *10 General*
- *11 Children's*
- *12 Psychopathic*
- *13 Morgue*
- *14 Tuberculosis*
- *15 Men's*
- *16 Contagious*

17 West Side Hospital
18 Illinois Training School for Nurses
19 Y.M.C.A. (West Side Professional Schools Dept.)
20 Presbyterian Hospital
21 Presbyterian Hospital School for Nurses
22 Rush Medical School
23 Chicago College of Dental Surgery
24 Memorial Institute for Infectious Diseases
25 Durand Hospital
26 Loyola Medical College
27 University Hospital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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

[Chicago College of Pharmacy 1859-1896]

Announcement for 1935-36

[Seventy-fifth Annual Announcement]

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UNIVERSITY
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COLLEGE CALENDAR

First Semester

1935

Sept. 23-28, Monday-Saturday	Special examinations.
Sept. 30, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Oct. 1, Tuesday, 8 A.M.	Instruction begun.
Nov. 27, Wednesday, 12 M.	Thanksgiving recess begun.
Dec. 2, Monday, 8 A.M.	Instruction resumed.
Dec. 21, Saturday, 12 M.	Holiday recess begun.

1936

Jan. 2, Thursday, 8 A.M.	Instruction resumed.
Jan. 27, Monday	Semester examinations begun.
Feb. 1, Saturday	Semester examinations ended.

Second Semester

Feb. 3, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Feb. 4, Tuesday, 8 A.M.	Instruction begun.
Apr. 9, Thursday, 5 P.M.	Easter recess begun.
Apr. 13, Monday, 8 A.M.	Instruction resumed.
May 21, Thursday	Final examinations begun.
May 27, Wednesday	Final examinations ended.
June 4, Thursday	Class day and alumni meeting.
June 5, Friday	Commencement exercises.

UNIVERSITY OF ILLINOIS
BOARD OF TRUSTEES

Members Ex Officio

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Hon. John A. Wieland, *Superintendent of Public Instruction*........Springfield

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Edward E. Barrett........................400 N. Michigan Avenue, Chicago
Walter W. Williams..Benton

(Term 1933-1939)

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Orville M. Karraker...Harrisburg
Dr. Karl A. Meyer........................1828 W. Harrison Street, Chicago

(Term 1935-1941)

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Byron Armstrong, Jacksonville

FACULTY OF THE COLLEGE OF PHARMACY

1934-35

Professors

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CLYDE MASON SNOW, Ph.G., A.M., *Professor of Pharmacy*
ALBERT HENRY CLARK, Ph.G., M.S., *Professor of Chemistry*
EDMUND NORRIS GATHERCOAL, Ph.G., Pharm.M., *Professor of Pharmacognosy*

Assistant Professors

HUGH LESLIE DAVIS, Ph.D., *Assistant Professor of Chemistry*
RALPH EUGENE TERRY, Ph.G., M.S., *Assistant Professor of Pharmacy*
ELMER HAUSER WIRTH, Ph.C., Ph.D., *Assistant Professor of Pharmacognosy*

Associates

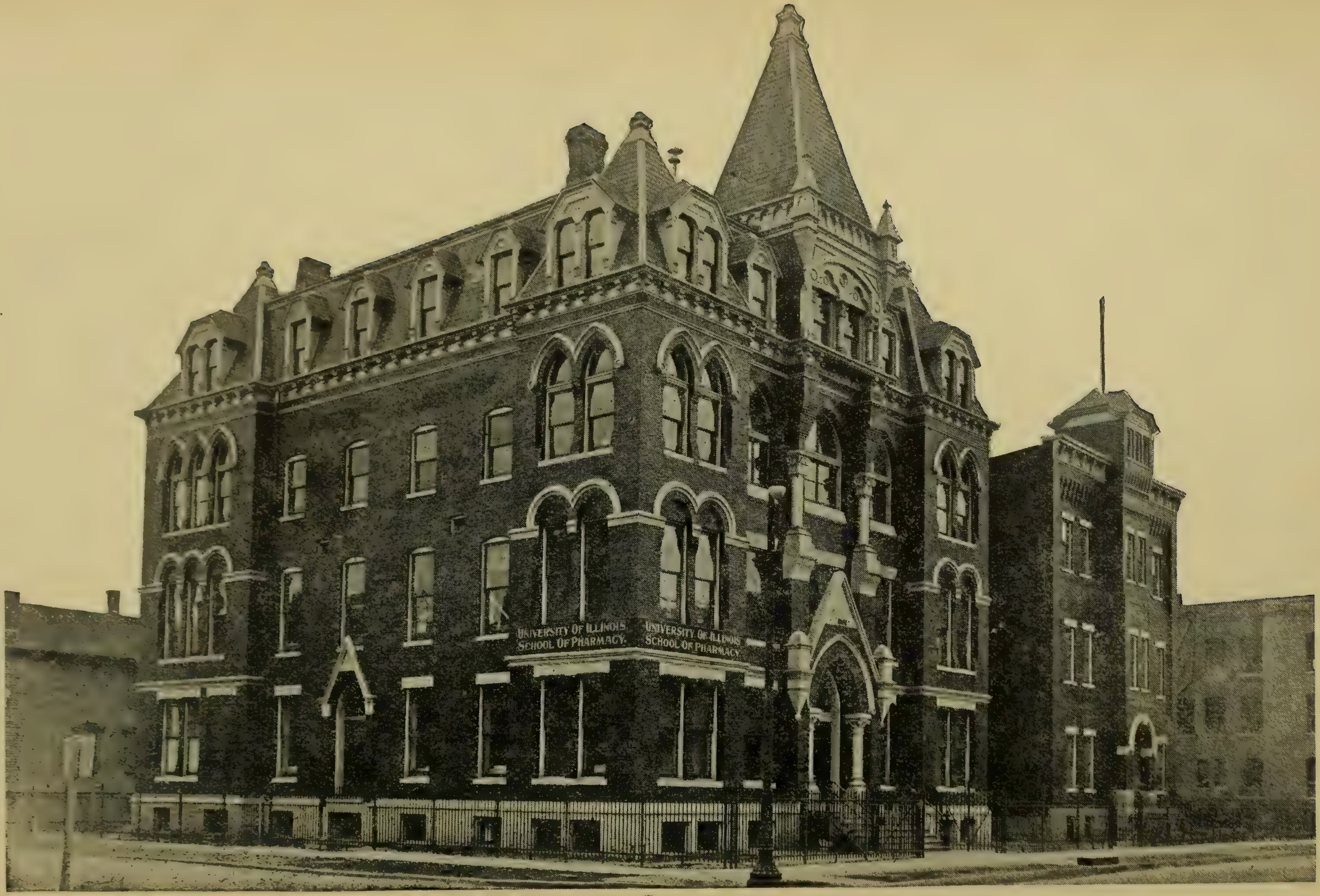
GEORGE LEWIS WEBSTER, Ph.G., M.S., *Associate in Chemistry*
CHARLES WILDMAN CLARKE, M.S., *Associate in Chemistry*
SHERMAN WILLIAM MORRISON, Ph.C., M.S., *Associate in Pharmacy and Pharmacist in the Drug Room*
HERBERT MARTIN EMIG, Ph.G., M.S., *Associate in Pharmacy*
LEONARD DANA POWERS, Ph.D., *Associate in Physics*

Instructors

LEWIS ELBERT MARTIN, Ph.G., B.S., *Instructor in Pharmacy*
SAMUEL SHKOLNIK, Ph.G., LL.M., *Instructor in Pharmacy*
PAUL DAVID CARPENTER, Ph.G., M.S., *Instructor in Materia Medica and Botany*
ESTHER MEYER, Ph.G., M.S., *Instructor in Bacteriology*
RAY ARTHUR PATELSKI, M.S., *Instructor in Chemistry*
CLIVEDEN LLWYD COX, Ph.G., M.S., *Instructor in Pharmacognosy*
URBAN OSCAR OAKDALE, Ph.G., Ph.D., *Instructor in Chemistry*

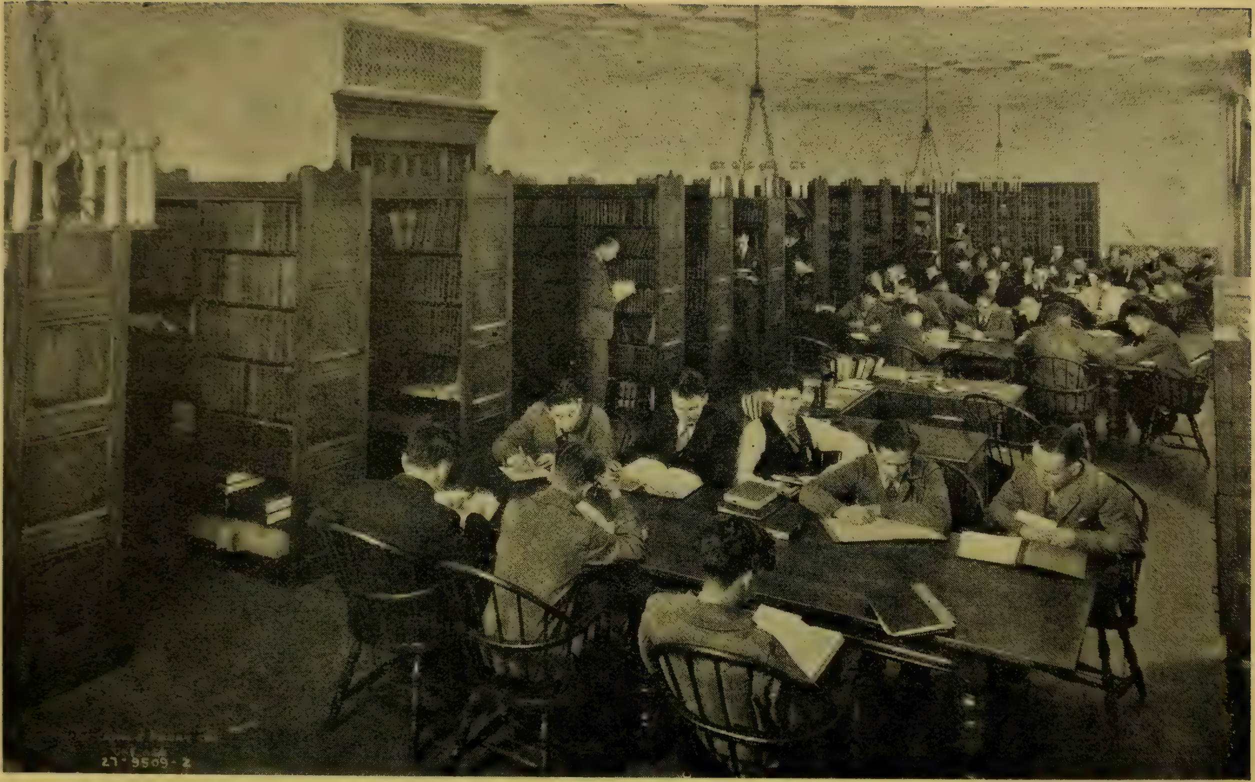
Assistants

JOSEPH CHARLES OCENASEK, Ph.G., B.S., *Assistant in Pharmacy*
LAWRENCE TEMPLETON, Ph.C., M.S., *Assistant in Pharmacy*
ERNST RUDOLF KIRCH, Ph.C., M.S., *Assistant in Chemistry*
PAUL GOTFRIED SODERDAHL, Ph.C., M.S., *Assistant in Chemistry*
MARION KASBEER, B.S., *Assistant in Chemistry*
RAYMOND SIGFRID ADAMSON, Ph.C., *Assistant in Materia Medica and Botany*
GERSTON BRUCH, Ph.C., *Assistant in Materia Medica and Botany*
BERNARD BENJAMIN BRODY, Ph.C., *Assistant in Pharmacy*
SOLOMON GERSHON, Ph.C., B.S., *Assistant in Chemistry*
WILLIAM ROBERT COLLINS, Ph.C., *Assistant in Pharmacy and Assistant Pharmacist in the Drug Room*


UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY.
UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY.

The North Buildings

The New Building and the South Building



Library

THE COLLEGE OF PHARMACY

History

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry, and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the trustees and officers of the University have had the assistance of an advisory board of pharmacists nominated by the pharmacists of the state, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

Location

The location of the College of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of 280 feet on Wood Street and 124 on Flournoy Street.

Buildings and Equipment

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, a physics laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains an auditorium seating 260 persons, two classrooms each seating 72 persons, offices, and students' rooms.

LECTURE ROOMS.—There are two lecture rooms seating respectively 270 and 260 persons and four smaller classrooms seating 90, 72, 72, and 72 each.

LABORATORIES.—Eleven laboratories having a total capacity of 725 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air. In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. Machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

LIBRARY.—The Library contains over six thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files

of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

Museum.—The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens. Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

Students' Rooms.—Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

Requirements for Admission

Applicants for admission to the College of Pharmacy of the University of Illinois must present satisfactory evidence of five years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives (not more than 4 units from non-academic subjects)	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (including algebra and trigonometry)	5

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected. As desirable electives the following are recommended: accountancy, history, zoology, and economics.

Preference to Illinois Residents.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

Non-Illinois Students.—All applicants for admission, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade; e.g., in a system of A, B, C, and D, with D as the passing grade, the average must be C.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

STATE QUALIFYING CERTIFICATE.—The Department of Education and Registration of the State of Illinois requires each student entering a recognized school of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the school, and blanks will be supplied by the school for the convenience of students in making this application.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The candidate for the degree of Pharmaceutical Chemist must be at least 21 years of age and must have attended three annual courses of instruction, the first and second of which may have been in some other recognized college or school of pharmacy. He must have attended regularly the laboratory and lecture courses and have satisfactorily finished the work required.

Students who have successfully met the scholarship requirement, but are lacking in age, will receive a certificate and will be awarded the diploma when this requirement is satisfied.

Students entering in 1932 or thereafter will receive the degree of Bachelor of Science in Pharmacy upon successfully completing the prescribed curriculum.

In order to receive his degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work taken at the University of Illinois and required for such degree. (The significance of grades is as follows: A, excellent; B, good; C, fair; D, poor but passing; E, failure.) He must also have shown evidence of good moral character and have paid all indebtedness to the University.

Graduation With Honors

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the commencement program.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register

by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as apprentice as early as possible.

Fees and Expenses

	Sophomore Year		*Junior Year*		*Senior Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1].......	$10.00	.....	.....	.....	.....	.....
Tuition[2].............	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[3]......	23.00	29.00	36.00	27.00	35.00	31.00
Graduation fee.......	.....	.....	.....	.....	.....	10.00
Totals[4]..........	$83.00	$79.00	$86.00	$77.00	$85.00	$91.00

Additional Fees.—Duplicate diploma, $10. Original transcript of record, $1;[5] for each carbon copy of same, 50 cents.

Late Registration Fee.—A late registration fee of five dollars will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

Listener's Fees.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00.

Payment of Fees.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation fees.

Change Fee.—For every change of study-list made later than the Monday noon following registration, a fee of $1.00 is charged, except that the total charge for the rearrangement authorized on any one change slip shall not exceed $2.00.

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[1] The matriculation fee is not required of students who have previously matriculated in any other college of the University of Illinois.

[2] The tuition fee of $50.00 each semester applies to students who are residents of Illinois. Those who are *not* residents of Illinois pay a tuition fee of $75.00 each semester. Students registered for ten hours or more in any semester pay the full tuition fee ($50.00 if residents, $75.00 if not residents). Students registered for less than ten hours in any one semester pay $5.00 per credit hour if residents of Illinois, or $7.50 per credit hour if not residents of Illinois.

[3] The laboratory fee covers all drugs, chemicals, and other material used by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[4] These totals apply to students who are residents of Illinois. Others see note 2 above.

[5] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

SERVICE CHARGE FOR DEFERRED FEES.—Under certain conditions, students may arrange for the payment of their fees in installments, in which case a service charge of ten per cent of the amount not paid on registration days is assessed.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The new ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

GENERAL ASSEMBLY SCHOLARSHIPS.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

STATE MILITARY SCHOLARSHIPS.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a school of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a school of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one school.

Ebert Loan Fund

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the Organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount of the fund is $1,948.25. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Prizes

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Herman Elich, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

PEDIGO PRIZE.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumna of the College offers a prize of twenty-five dollars to the senior student who attains the highest average in Materia Medica.

LAMBDA KAPPA SIGMA KEY. — Gamma Chapter of Lambda Kappa Sigma pharmaceutical sorority offers a prize, consisting of a key, to the member of the sorority who obtains the highest average in the entire course leading to the degree.

Organizations

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

Phi Chapter of Rho Chi, national honorary pharmaceutical society, organized to promote the advancement of the pharmaceutical sciences, is located at the College. Meetings for the discussion of the pharmaceutical sciences are held at stated times during the session. Elections to the society are held annually. Students who have completed 75 hours of scholastic work and have attained an average of at least 85 per cent or its equivalent are eligible for membership.

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

For further information or for an application blank, address

THE DEAN, COLLEGE OF PHARMACY
715 South Wood St., Chicago, Ill.

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of work in a recognized college or university and consists of not less than 30 semester hours as specified on page 13 of this circular.

The first year of this curriculum as offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana is as follows:

Freshman Year

First Semester	Hours	*Second Semester*	Hours
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-0	Electives[1]	5
Physical Education		Physical Education	
Hygiene		Military (for men)	
Military (for men)			
Total	15	Total	15

MATERIA MEDICA AND BOTANY

Professor DAY, Professor GATHERCOAL, Assistant Professor WIRTH, Miss MEYER, Mr. COX, Mr. CARPENTER, Mr. ADAMSON, Mr. BRUCH

Sophomore Year

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

Professor DAY, Professor GATHERCOAL, Mr. CARPENTER

22. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.

Professor GATHERCOAL, Mr. CARPENTER

Junior Year

31. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, including their titles, synonyms, definitions, collection, preservation, identification, standardization, therapeutic use, and dose. The vegetable drugs are classified according to botanical source and the animal drugs according to zoological source. The laboratory work includes a study of the crude drugs in whole and powdered form, leading to their recognition and the determination of their quality and purity by organoleptic, microscopic, and micro-chemical means. Two

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. Botany, Physiology, Physics, Bacteriology, and additional courses in chemistry are *not* accepted.

lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. *Prerequisite:* Plant Histology course 22. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

32. *Pharmacognosy.*—A continuation of Course 31. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

34. *Physiology.*—A course in which the important features concerning the anatomy, physiology, and hygiene of the various systems of the human body are studied. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Mr. EMIG

Senior Year

41. *Bacteriology.*—Characteristics of bacteria, yeasts, and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants, and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER

42. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester. Professor DAY, Assistant Professor WIRTH, Mr. COX, Miss MEYER

44. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, based upon their important constituents. The laboratory work includes the micro-isolation of the constituents from drug material and the identification of these constituents by microscopical and micro-chemical means. The groups studied include carbohydrates, mucilages and gums, glucosides, alkaloids, fixed oils, volatile oils, oleoresins, resins, balsams, tannins, phloroglucinol derivatives, enzymes, hormones, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First or second semester. *Prerequisite:* Pharmacognosy courses 31 and 32. (Not given in 1934-35.)

46. *Microscopy of Foods.*—Optional. Should be elected simultaneously with Chemistry course 44. May be elected in lieu of Pharmacognosy course 44 only by special permission of the head of the department. A microscopical study of foods including cereals and cereal products, spices and condiments, oil seeds and oil cakes, legumes, nuts, fruit and fruit products, vegetables, tea, coffee, cocoa, etc., including their identification and the determination of their quality and purity by microscopical means. Special reference will be made to legal standards governing these foods. Food products purchased in the open market will be brought to the laboratory for examination. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Assistant Professor WIRTH, Mr. ADAMSON

CHEMISTRY

Professor Clark, Assistant Professor Davis, Mr. Clarke, Mr. Webster,
Dr. Powers, Dr. Oakdale, Mr. Kirch, Mr. Soderdahl,
Miss Kasbeer, Mr. Gershon

Sophomore Year

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. (Required of all students.) Two one-hour class periods and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. Mr. Clarke, Mr. Gershon

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four one-hour class periods and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.
Assistant Professor Davis, Mr. Kirch, Mr. Gershon

24. *General Physics.*—A general discussion of the fundamental principles of mechanics, heat, and sound. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) Second semester. Dr. Powers, Mr. Soderdahl

Junior Year

31. *Organic Chemistry.*—This course is a continuation of Chemistry 22 but is devoted almost entirely to the aromatic compounds. As in Chemistry 22, pharmaceutical applications are emphasized in both the theoretical and the laboratory work. The composition of volatile oils and the nature of their most important constituents are fully discussed. Alkaloids and related substances are extensively studied as to their constitution and its relationship to chemical and physiological action. The laboratory work is devoted to the preparation of typical substances, examination of U.S.P. products, analysis of drugs, etc. Three lectures or recitations and one four-hour laboratory period each week. (4 semester hours, 7 clock hours.) First semester.
Assistant Professor Davis, Mr. Kirch

32. *Quantitative Analysis.*—The theories and technique of gravimetric and volumetric analysis are taught in this course. Whenever possible the methods of the U.S.P. are used to illustrate their application and pharmaceutical or medicinal products are used as material for practical examination. Three lectures or recitations and two three-hour laboratory periods each week. (5 semester hours, 9 clock hours.) Second semester. Mr. Clarke, Mr. Gershon

33. *General Physics.*—A continuation of the discussion of the principles of physics as related to the phenomena of electricity, magnetism, and light. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) First semester Dr. POWERS, Mr. SODERDAHL

Senior Year

41. *Drug Assaying.*—A study of the principles and methods of drug standardization applied to substances included in the U.S.P. The course includes the preparation and standardization of volumetric solutions; assays of alkaloid bearing drugs, resinous drugs, essential oils, aldehydes, phenol, and nitrites; the determination of halogen in organic compounds, alcohol in pharmaceutical preparations, acid, saponification, and iodine value of fats, congealing point, refractive index, specific rotation, and kinematic viscosity. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Professor CLARK, Mr. WEBSTER, Dr. OAKDALE, Miss KASBEER

42. *Advanced Drug Assaying.*—A continuation of the study of drug standardization methods as applied to commercial mixtures of medicinal chemicals, proprietary medicines, insecticides, pills, tablets, and enzymes. The quantitative methods of urine and blood analysis will be studied. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. (Not given in 1934-35.)

43. *The Chemistry of Synthetic Drugs and Proprietary Medicines.*—In this course an attempt is made to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in Chemistry 22 and 31. The relationship between their chemical constitution and physiological action is constantly discussed. Two lectures or recitations each week. (2 semester hours, 2 clock hours.) First semester.

Professor CLARK

44. *Food Analysis.*—Optional. May be elected in place of Chemistry course 42 with permission of the head of the chemistry department. Offered to classes of six or more students. A study of the principles and methods of food analysis. Samples of food products will be purchased and subjected to physical and chemical examination for the detection of preservatives, added coloring, metallic poisons, and foreign substances. The chemical and physical constants of common food substances will be determined and compared with the state and federal requirements for these substances. Bottled beverages, canned vegetables, flavoring extracts, milk, butter, salad oils, table syrups, ice cream, baking powder, candy, and other food products will be examined. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Professor CLARK, Mr. WEBSTER, Dr. OAKDALE, Miss KASBEER

46. *Synthesis of Drugs.*—Optional. May be elected in place of Chemistry course 42 by permission of the head of the chemistry department. Offered to classes of six or more students. A continuation of the study of organic chemistry and the application of the type reactions to the manufacture of organic medicinal chemicals and their intermediates. Barbital, cinchophen, acetphenetidine, phenolphthalein, tryparsamide, hexylresorcinol, guaiacol, methylene blue,

or others may be selected in consultation with the instructor. Reference to the original work on the substance elected is encouraged. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. (Not given in 1934-35.)

PHARMACY

Professor Snow, Assistant Professor Terry, Mr. Martin, Mr. Morrison, Mr. Emig, Mr. Ocenasek, Mr. Shkolnik, Mr. Templeton, Mr. Brody, Mr. Collins

Sophomore Year

21. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.
Professor Snow, Mr. Ocenasek, Mr. Shkolnik, Mr. Brody

22. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Snow, Mr. Ocenasek, Mr. Shkolnik, Mr. Brody

23. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 21. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester. Mr. Shkolnik, Mr. Brody

24. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one three-hour laboratory period of three hours each week. (1 semester hour, 4 clock hours.) Second semester. Mr. Shkolnik, Mr. Brody

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Mr. Morrison, Mr. Ocenasek, Mr. Shkolnik, Mr. Templeton, Mr. Brody

Junior Year

31. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, thera-

peutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

32. *Organic Pharmacy.*—A continuation of Pharmacy 31. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

33. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

34. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

Senior Year

41. *Theory of Advanced Organic Pharmacy.*—A lecture course on the animal and plant drugs of the Pharmacopoeia and National Formulary as related to the practice of pharmacy. This includes their sources, methods of preparation, active constituents, therapeutic uses, doses, and antidotes if poisonous. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) First semester. *Prerequisite:* All sophomore and junior pharmacy courses, including arithmetic.

Professor SNOW, Assistant Professor TERRY, Mr. EMIG, Mr. TEMPLETON

42. *Theory of Advanced Organic Pharmacy.*—A lecture course, continuation of course 41. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Assistant Professor TERRY, Mr. EMIG, Mr. TEMPLETON

43. *Advanced Operative Pharmaceutical Laboratory.*—The manufacture of complex pharmaceuticals, official and unofficial. Assayed tinctures, resins, granular effervescent salts, etc. Some time is devoted to the manufacture of cosmetics. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First semester.

Assistant Professor TERRY, Mr. EMIG, Mr. TEMPLETON

44. *Advanced Dispensing Laboratory Practice.*—Compounding technics for the dispensing of complex prescription formulas. The manufacture of difficult extemporaneous preparations and the study of incompatible prescriptions with compounding practice. Pills, suppositories, cachets, tablet triturates, etc. Two laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester. Assistant Professor TERRY, Mr. EMIG, Mr. TEMPLETON

45. *Seminar in Library Practice.*—A study of pharmaceutical literature, scientific and commercial. Library arrangement and practice. Preparation of a series of reports covering selected topics. One recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor Terry, Mr. Emig, Mr. Templeton

46. *Seminar in Commercial Pharmacy.*—A discussion of commercial pharmaceutical practices. (1 semester hour, 1 clock hour.) Second semester.

Assistant Professor Terry, Mr. Emig, Mr. Templeton

48. *Business Law.*—A presentation of the fundamentals of commercial laws with special reference to their application to the retail drug business; principles of contracts, leases, agency, corporations, partnerships, bills and notes, chattel mortgages, conditional sale agreements, consignments, sales, bulk sales, and insurance. A discussion of federal, state, and local laws pertaining to the practice of the profession of pharmacy and to the conduct of a retail drug store; pure food and drug laws and regulations; poison, narcotic, and liquor laws and regulations; pharmacy ownership laws; common law and statutory rights, privileges, duties, and liabilities of registered pharmacists, assistant pharmacists, pharmacy apprentices, employers, and employees; and matters of reciprocity. Trade marks, copyrights, and patents relating to pharmaceutical preparations, apparatus, and processes. One hour lecture each week. (1 semester hour, 1 clock hour.) Second semester. Mr. Shkolnik

50. *Hospital Practice.*—Affiliated with the College is the Research and Educational Hospital where each candidate for the degree must work not less than 50 clock hours. This requirement may be met during the junior and senior years. The candidate prepares pharmaceutical preparations and compounds prescriptions from the physicians of the clinics and hospital. (1 semester hour.)

Mr. Morrison, Mr. Collins

SUMMARY OF CURRICULUM LEADING TO B.S. DEGREE

Freshman Year

Thirty semester hours in an accredited college of liberal arts, including the specific requirements listed on page 13 of this circular.

Sophomore Year

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Didac.	Lab.		
Pharm. 21.—Theoretical Pharmacy......	3	..	3	3
Pharm. 23.—Pharmaceutical Physics....	1	3	4	2
Pharm. 25.—Arithmetic................	3	..	3	3
Chem. 21.—Qualitative Analysis........	2	6	8	4
Mat. Med. & Bot. 21.—General Botany..	3	3	6	4
Total for semester.................	12	12	24	16

Second Semester

Pharm. 22.—Galenical Pharmacy.......	3	..	3	3
Pharm. 24.—Operative Pharmacy.......	1	3	4	1
Chem. 22.—Organic Chemistry.........	4	4	8	5
Chem. 24.—General Physics............	3	3	6	4
Mat. Med. & Bot. 22.—Plant Histology..	2	6	8	4
Total for semester.................	13	16	29	17

Junior Year

First Semester

Pharm. 31.—Galenical Pharmacy.......	3	..	3	3
Pharm. 33.—Dispensing................	1	6	7	3
Chem. 31.—Organic Chemistry.........	3	4	7	4
Chem. 33.—General Physics............	3	3	6	4
Mat. Med. & Bot. 31.—Pharmacognosy..	2	6	8	4
Total for semester.................	12	19	31	18

Second Semester

Pharm. 32.—Organic Pharmacy.........	3	..	3	3
Pharm. 34.—Organic Preparations.......	1	6	7	3
Chem. 32.—Quantitative Analysis.......	3	6	9	5
Mat. Med. & Bot. 32.—Pharmacognosy..	2	6	8	4
Mat. Med. & Bot. 34.—Physiology......	3	..	3	3
Total for semester.................	12	18	30	18

Senior Year

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Didac.	Lab.		
Pharm. 41.—Advanced Organic Pharmacy	3	..	3	3
Pharm. 43.—Operative Laboratory......	..	6	6	2
Pharm. 45.—Seminar..................	1	..	1	1
Chem. 41.—Drug Assaying.............	1	8	9	3
Chem. 43.—General Organic Chemistry..	2	..	2	2
Mat. Med. & Bot. 41.—Bacteriology.....	3	9	12	6
Total for semester..................	10	23	33	17

Second Semester

Pharm. 42.—Advanced Organic Pharmacy	3	..	3	3
Pharm. 44.—Dispensing................	..	6	6	2
Pharm. 46.—Seminar..................	1	..	1	1
Pharm. 48.—Business Law.............	1	..	1	1
Pharm. 50.—Hospital Practice..........	..	..*	..*	1
Chem. 42.—Drug Assaying.............	1	8	9	3
Mat. Med. & Bot. 42.—Materia Medica..	3	..	3	3
Mat. Med. & Bot. 44.—Pharmacognosy† .	1	6	7	3
Total for semester..................	10	20	30	17

Note: The minimum number of semester hours required for the B.S. degree is 133.

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*A minimum of 50 clock hours in the hospital pharmacy department.

†May be taken either semester.

THE THREE-YEAR CURRICULUM

This course comprises three years of thirty-two weeks each and leads to the degree of Pharmaceutical Chemist.

The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work in operative and dispensing pharmacy, analytical chemistry, use of the microscope, etc. Much time is devoted to laboratory practice.

(The first year of this three-year curriculum was offered for the last time in 1931-32, the second year was offered for the last time in 1933-34, and the third year will be offered for the last time in 1935-36.)

MATERIA MEDICA AND BOTANY

First Year

1. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.

2. *Physiology and Hygiene.*—A general course with instruction for caring for emergency cases. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

3. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Second Year

4. *Materia Medica.*—General principles; classification of drugs based upon botanical source; their titles, synonyms, collection, preservation, standardization, therapeutic use, dose and preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

5. *Pharmacognosy.*—A laboratory study of crude drugs in whole and powdered form, leading to their recognition, and the determination of their quality and purity by organoleptic, microscopic and micro-chemical means. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester.

6. *Materia Medica.*—A continuation of Course 4. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

7. *Pharmacognosy.*—A continuation of Course 5; methods for the detection of adulteration in powdered drugs. One recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester.

Third Year

8. *Bacteriology.*—Characteristics of bacteria, yeasts and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disin-

fectants and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.

Professor Gathercoal, Miss Meyer

9. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester.

Professor Day, Assistant Professor Wirth, Mr. Cox, Miss Meyer

10. *Pharmacognosy.*—Microscopical examination, micro-sublimation and micro-chemical tests applied to drugs, cereals, spices, textiles and other commercial products. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First or second semester.

Assistant Professor Wirth, Mr. Adamson

CHEMISTRY

First Year

1a. *General Chemistry.*—The fundamental principles or laws of chemistry developed by a systematic study of the non-metallic elements. The modern theories of ionization, mass action, solution. Four lectures and recitations and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) First semester.

3. *General Chemistry.*—A study of the metals from the standpoint of the principles embodied in course 1a. The use of the metals and their compounds in pharmacy and the chemistry related thereto are emphasized. Four lectures and recitations each week. (4 semester hours, 4 clock hours.) Second semester.

4. *Qualitative Analysis.*—The detection of acid radicals; separation and identification of metals; Pharmacopeial tests of identity and purity as applied to medicinal chemicals. One laboratory period of 4 hours each week. (1 semester hour, 4 clock hours.) Second semester.

Second Year

5. *Quantitative Analysis.*—The principles of gravimetric and volumetric analysis considered largely from the standpoint of the assay processes of the U.S.P. Two lectures, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) First semester.

6. *Theoretical Organic Chemistry.*—A systematic course in the study of the aliphatic hydrocarbons and their derivatives, especially those substances used in pharmacy and medicine. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

7. *Quantitative Drug Analysis.*—Typical processes of quantitative analysis as applied to the examination of drugs, assay of medicinal chemicals, analysis of medicines. Two lectures or recitations, one three-hour and one four-hour laboratory period each week. (4 semester hours, 9 clock hours.) Second semester.

8. *Theoretical Organic Chemistry.*—The aromatic hydrocarbons and their derivatives, volatile oils, glucosides, alkaloids. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Third Year

9. *General Organic Chemistry.*—Synthetic drugs and organic medicinal products. An attempt to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in courses 6 and 8, indicating the relationship between their chemical constitution and physiological action. Two lectures and recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK, Dr. OAKDALE

10. *Organic Preparations.*—Organic type reactions applied to the preparation of medicinally important organic substances. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester. Mr. WEBSTER, Dr. OAKDALE, Miss KASBEER

11. *Advanced Drug Analysis.*—Alkaloidal assay of drugs, examination of volatile oils, carbohydrates, resins, waxes, general assay processes of the Pharmacopoeia. One lecture and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.
Mr. WEBSTER, Dr. OAKDALE, Miss KASBEER

PHARMACY

First Year

1. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

2. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 1. One recitation or lecture and one laboratory period of 3 hours each week. (2 semester hours, 4 clock hours.) First semester.

3. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

4. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

5. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) Second semester.

Second Year

6. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, therapeutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) First semester.

7. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

8. *Organic Pharmacy.*—A continuation of Pharmacy 6. Three lectures and recitations each week. (3 semester hours, 3 clock hours.) Second semester.

9. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture and recitation and two laboratory periods of 3 hours each week. (3 semester hours, 7 clock hours.) Second semester.

Third Year

10. *Operative Pharmacy.*—Three lectures and recitations and two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) First semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Templeton

11. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) First semester. Assistant Professor Terry, Mr. Emig, Mr. Templeton

12. *Seminar.*—One recitation each week. (1 semester hour, 1 clock hour.) Second semester. Assistant Professor Terry, Mr. Emig, Mr. Templeton

13. *Advanced Dispensing.*—Three lectures and recitations, two laboratory periods of three hours each week. (5 semester hours, 9 clock hours.) Second semester.

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Templeton

14. *Dispensary Practice.*—Each candidate for graduation is required to spend not less than 50 clock hours in the dispensary of the Research and Educational Hospital, in making pharmaceutical preparations and dispensing prescriptions under the supervision of the instructor. This requirement may be met during the junior and senior years. Mr. Morrison, Mr. Collins

SUMMARY OF THE THREE-YEAR CURRICULUM

First Year
(Not offered after 1931-32)

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Lec. & Rec.	Lab.		
Pharmacy 1, 2, and 3	7	3	10	8
Chemistry 1a	4	4	8	5
Materia Medica and Botany 1	3	3	6	4
Total for semester	14	10	24	17

Second Semester

Pharmacy 4 and 5	4	3	7	5
Chemistry 3 and 4	4	4	8	5
Materia Medica and Botany 2 and 3	4	6	10	6
Total for semester	12	13	25	16

Second Year
(Not offered after 1933-34)

First Semester

Pharmacy 6 and 7	4	6	10	6
Chemistry 5 and 6	5	7	12	7
Materia Medica and Botany 4 and 5	4	6	10	6
Total for semester	13	19	32	19

Second Semester

Pharmacy 8 and 9	4	6	10	6
Chemistry 7 and 8	5	7	12	7
Materia Medica and Botany 6 and 7	4	6	10	6
Total for semester	13	19	32	19

Third Year
(Not offered after 1935-36)

First Semester

Pharmacy 10 and 11	4	6	10	6
Chemistry 9 and 10	3	8	11	5
Materia Medica and Botany 8	3	9	12	6
Total for semester	10	23	33	17

Second Semester

Pharmacy 12 and 13	4	6	10	6
Chemistry 11	1	8	9	3
Materia Medica and Botany 9 and 10	3	6	9	5
Dispensary	..	3	3	1
Total for semester	8	23	31	15

Total semester hours in three years....................................103
Average number of clock hours a week a semester........................ 29

DEGREES CONFERRED

Degree of Pharmaceutical Chemist

Conferred in October, 1934

Thaddeus Victor Niemiec

Conferred in February, 1935

Hyman Africk*
Leonard Denenholz*
Maria Raphaella DiGilio
Max Drexler*
Sam Drexler*
Joseph James Flanagan
Henry Gardner*
Aaron Archie Goldin*
Robert William Hoft
John Stanley Jankowski
Edward Abraham Karsa
Talmage Wilfred Kisner*
Joseph Klima
David Kukee
Arthur Leonard Lampert*
Louis Lerner
Edward Victor Lesinski
Edward Joseph McKenna
Benjamin Frank Madaj
Salvatore Perrelli
James Charles Raispis
Leon Zee Seltzer*
Dominick Peter Serpico
Nathan Stein*
Joseph Francis Valvoda, Jr.*
Melvin Witkin*

Conferred in June, 1935

Harry William Adams*
Frances Lillian Baker
Bernard B. Berman
Esther Berman
Charles Henrie Billups
Theodore Hyman Blonder
Milton Seymour Bower
Herbert Bernard Braverman
Maxwell Broskuf
George Edward Bruha*
David Thiel Burger
Anthony Charles Chiaramonte
Jerry Chuman
Minnie Cohen
Reece Carlyle Covalt
Peery August Duderstadt
Gerald Gail Edwards
Leonard Harold Feinberg
Ann Sophia Giacinti
Edward Joseph Glaser
Arthur Ira Goodman
Willard Green
Kenneth Herbert Harris
Felix Herbstman
Sister Mary Getulia Honorowski
Jaroslav J. Horacek
Anthony Andrew Indovina
Anthony Jacob
Edward Charles Jankauskas
Lillian Ella Janosik
Roland Frank Koepke
Henry Charles Kot
John F. Lacey
Sol Lapofski
Joseph Louis Latelle
Victor Emanuel Lawrence
Frank Lee
Joseph Anthony Lentino
Lena Armida Leonard
Walter Anthony Molas
Halger Carl Naslund
Louis Pertzovsky
Harry John Phelan
Harry George Pulik
William DeLos Rachielles
Nathan Rapp
Gust Lawrence Reinhold
Stewart John Rollinson
David Edmund Rosenblatt
Malvern Mack Roth
Nicholas S. Salamie
George Leon Schlan
Meyer Scholnick*
Harry Selwitz
Harry Sevelow
Harold George Seyffert
Duane C. Shrout
Harry Calvin Singer
Robert Harry Sommer
Sam Steinberg

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*Students who completed their requirements in June, 1934, but who were not twenty-one years of age at that time.

Vivian Leona Stepek
Jayson Jay Sweet
Dillon W. Swingle, Jr.
Clarence Thompson
Joe Peter Tinaglia
Grace Ellen Topf
Hollis John Toynton
Daniel A. Traficante
Amideo R. Triscinzzi
Joseph Warzecha
Meyer Weinstein
Leon Marshall Whitelock
Raymond John Wiltgen
Sister Mary Leonica Wirkus
Beatrice A. Zeman
Robert Irvin Zeman
Theodore Clarence Zeman*
Floyd Stanton Zuck
Anthony Francis Zychowicz

Degree of Bachelor of Science in Pharmacy

Conferred in June, 1935

Sam Roy Androfsky
Sam Chadnowsky
Abe Albert Danish
Harold Finkelstein, with Honors
Mandel Max Jacobson
Harry Karl Kuhrt
Walter Andrew Madej
Anne Frances Putyra
Harry Max Rayman
Abe Moe Rosen
Roy Kenneth Snyder, B.S., M.S.
Edward Ernest Vicher, with Honors
Ferdinand Benjamin Zienty, with High Honors

PRIZES, 1935

Samuel L. Antonow Prize in Pharmacy	Sister Leonica Wirkus
Herman Elich Prize in Chemistry	Edward Ernest Vicher
William Gray Prize for Dispensing	Sister Getulia Honorowski
Hodel-Saltiel-Hodel Prize for General Scholarship	Ferdinand Benjamin Zienty
Lambda Kappa Sigma Key in Pharmacy	Vivian Stepek
Lee M. Pedigo Prize in Materia Medica	Harold Finkelstein
Alice E. Pelikan Prize in Materia Medica	Charles Henrie Billups
Andrew Sherer Prize in Pharmacy	Perry August Duderstadt

REGISTER OF STUDENTS, 1934-35

Candidates for the Degree of Bachelor of Science in Pharmacy

Sophomores

Anderson, Clifford Willard, Peoria
Banker, John Robert, Aurora
Becker, Charles Henry, Chicago
Bitautas, Walter A., Kenosha, Wisconsin
Boffa, Philip Joseph, Chicago
Bona, Frank Thomas, Chicago
Broccolo, Theresa Marie, Cicero
Brody, Yale Julius, Chicago
Brown, Edward Wilder, Walworth, Wisconsin
Burhop, George William, B.S., Chicago
Cevela, Franklin Charles, B.S., West Chicago
Chirs, Walter Edward, Chicago
Chvojka, Samuel John, Chicago
Cohn, Carl Albert, B.S., Chicago
Connors, Harry James, Chicago
Crain, Jared Walter, Maywood
Crowder, Illinoia Celia, Smithboro
Damer, Edward John, Berwyn
Dargis, Marcella Leone, Chicago
Denton, Clarence Earl, Beardstown
Elam, John Wesley, B.S., Vaughans, Mississippi
Elkins, Morris H., Chicago
Evangelista, Sam Joseph, Chicago
Fitzgerald, Robert Frank, Morrison
Flower, Harry, Chicago
Foote, Coleman H., Earlville
Fosen, Lloyd, Joliet
Frank, Julius, Chicago
Fredson, Samuel Joseph, Chicago
Fried, Edward Theodore, Chicago
Frosh, Alvin Joseph, Chicago
Gasen, Robert Coultas, Winchester
Gerstein, Louis Erwin, Chicago
Goldberg, Sophie, Chicago
Goldman, Hyman Z., Chicago
Golembo, Julius E., Chicago
Gurskis, Joseph E., Chicago
Hymes, Mary Agnes, Chicago
Jacobson, Jeannette Sylvia, Chicago
Jancauskas, Joseph Benedict, Jr., Cicero
Kalom, Seymour Sanford, Chicago
Kaplan, Benjamin J., Chicago
Klemme, Leonard Carl Albert, Hubbard, Iowa
Krupinski, Helen Marcia, East Chicago, Indiana
Krupsky, Abe Morris, Chicago
Lacey, Wilson T., Grand Ridge
Leonard, Forrest Virgil, Chicago
Leone, Charles Joseph, Chicago
Lewis, Sam, Chicago
Litz, Bernard Rozov, Chicago
McEncroe, John Robert, Chicago
McKee, Maxine Ruth, Chicago
Madison, Ruth, Chicago
Maher, Frank Thomas, Beardstown
Manevitz, Julius, Chicago
Marder, Herbert Bernard, Chicago
Martz, Florence Louise, Chicago
Meyerovitz, Charles, Chicago
Meyerovitz, Julius Alfred, Chicago
Meyrowitz, Bernard, Chicago
Michet, Victor Basil, Jr., Chicago
Muetze, Fred Theodore, Chicago
Muley, Joseph, Chicago
Naktin, Paul, Chicago
Osmolak, Edward Joseph, Cicero
Parks, Frank Ernest, Jr., Marion
Pedrucci, Randolph Aimone, Kincaid
Pickman, Nathan, Chicago
Piotrowski, Walter Joseph, Chicago
Pirolli, Edward N., Cicero
Potenza, Lawrence, Chicago
Potkin, Nathan, Chicago
Prizant, Milton S., Chicago
Przepiorski, John Bruno, Chicago
Przudzik, Lucille, Chicago
Rabinowitz, Irving J., Chicago
Raispis, Marie Emily, Chicago
Rapp, Morton, Chicago
Rimkus, Joseph, Chicago
Rosenbloom, Bernard Charles, Chicago
Samuels, John P., Chicago
Scaletta, Josephine Bernadette, Chicago
Schwartz, Martin, Chicago
Scotellaro, John, Chicago
Sellers, James B., Jr., Chicago
Silverman, Morris Bernard, Chicago
Smith, Stella Sandra, Chicago
Stanley, Edna Inez, Chicago
Stobart, Kenneth M., Harrisburg
Surabian, Koorken, Chicago
Svoboda, George Emil, Berwyn
Sypniewski, Arthur, Chicago
Uretzky, Rubin, Chicago
Vaisvil, Isabella Antoinette, Cicero
Warhanik, Vernon Francis, Chicago
Warzynski, Raymond Joseph, Chicago
Weiss, Benjamin Maurice, Chicago
West, Franklin Basil, Belvidere
Yallof, Charles, Chicago
Zack, Stephanie Infantia, Chicago

Juniors

Elich, Robert William, Chicago
Endler, Abraham, Chicago
Fetzer, Leland Everett, Rockford
Fisher, Raymond, Chicago
Fridrich, Raymond Joseph, Mount Carmel
Gher, Walter Allen, Chicago
Hoff, William A., Chicago
Horowitz, Nathan, Chicago
Hotz, Marshall, Chicago
Howell, Kenneth Lyle, Joliet
Hubler, Dorothy Helen, Chicago
Jaruszewski, Edward John, Chicago
Kaski, Ignatius Joseph, Cicero
King, Edward Ernst, Chicago
King, Elmer Guenther, Chicago
Kolomatsky, Constantine George, Chicago
Lescher, Francis Xavier, Chicago
Mitacek, Jerome Martin, Chicago
Mizen, Michael Richard, Chicago
Mozenter, Carl George, Chicago
Rogowski, Edward Casimir, Chicago
Rosen, Karl Blei, Chicago
Rudzinski, Leonard Joseph, Chicago
Schallman, J. Leonard, Chicago
Schauer, Arthur Albert, Chicago
Schwartz, Irving, Chicago
Seamans, Bernard Irving, Chicago
Sharka, Walter Joseph, Chicago
Silver, Herman, Chicago
Sonshine, Samuel, Chicago

Steveley, Robert Geymer, Chicago
Streit, Rita Irene, Chicago
Strout, Charles William, La Salle
Taylor, James Willard, Gillespie
Threlkeld, Victor Lennes, Mt. Vernon
Tuscher, Ethel Louise, Meredosia
Volkenant, Adam Everett, Ottawa
Weiss, Alvin Clarence, Chicago
Witt, Irving Robert, Chicago

Seniors

Androfsky, Sam Roy, Chicago
Chadnowsky, Sam, Chicago
Chlebik, Sister Mary Hiltrudis, Joliet
Danish, Abe Albert, Chicago
Finkelstein, Harold, Chicago
Higgins, Sister Mary Evarista, Joliet
Jacobson, Mandel Max, Chicago
Krebs, Sister Mary Ethelberta, Joliet
Kuhrt, Harry Karl, Evanston
Madej, Walter Andrew, Chicago
Putyra, Anne Frances, Chicago
Rayman, Harry Max, Chicago
Rosen, Abe Moe, Chicago
Ruttenberg, Sam, Chicago
Snyder, Roy Kenneth, B.S., M.S., Chicago
Taylor, Sidney Asher, Chicago
Vicher, Edward Ernest, Berwyn
Zienty, Ferdinand Benjamin, Chicago

Candidates for the Degree of Pharmaceutical Chemist

Seniors

Baker, Frances L., Chicago
Berman, Bernard B., Chicago
Berman, Esther, Chicago
Billups, Charles Henrie, East St. Louis
Blonder, Theodore Hyman, Chicago
Bower, Milton Seymour, Chicago
Braverman, Herbert Bernard, Chicago
Broskuf, Maxwell, Chicago
Burger, David Theil, Elgin
Catelani, Alfred, Chicago
Chiaramonte, Anthony Charles, Chicago
Chuman, Jerry, Chicago
Cohen, Marvin Harvey, Chicago
Cohen, Minnie, Chicago
Covalt, Reece Carlyle, Mattoon
DiGilio, Maria Raphaella, Chicago
Duderstadt, Peery August, Chicago
Edwards, Gerald Gail, Kilbourne
Feinberg, Leonard Harold, Chicago
Flanagan, Joseph James, Chicago
Giacinti, Ann Sophia, Maywood
Glaser, Edward Joseph, Chicago
Goodman, Arthur Ira, Chicago
Grams, Edward Thomas, Chicago
Green, Willard, Chicago
Hagal, Florian Adam, Chicago
Harney, Martin Joseph, Chicago
Harris, Kenneth Herbert, Chicago
Herbstman, Felix, Chicago
Hilberg, Herbert Stanley, Chicago
Hoft, Robert William, Berwyn
Honorowski, Sister Mary Getulia, Chicago
Horacek, Jaroslav Jerry, Chicago
Horvath, Bela, Chicago
Indovina, Anthony Andrew, Chicago
Infusino, Alfred Rosario, Chicago
Jacob, Anthony, Chicago
Jaglinski, Harry Walter, Chicago
Jankauskas, Edward Charles, Waukegan
Jankowski, John Stanley, Chicago
Janosik, Lillian Ella, Cicero
Karsa, Edward, Chicago
Kazer, Edwin Franklin, Chicago
Klima, Joseph, Chicago
Koepke, Roland Frank, Batavia
Kot, Henry Charles, Chicago
Ksycki, Bernard Henry, Chicago
Kukee, David, Chicago
Lacey, John F., Grand Ridge
Lapofski, Sol, Chicago
Latelle, Joseph Louis, Chicago
Lawrence, Victor Emanuel, Chicago
Lee, Frank, Chicago
Lentino, Joseph Anthony, Chicago
Leonard, Lena, Chicago
Lerner, Louis, Chicago
Lesinski, Edward Victor, Chicago
McKenna, Edward Joseph, Chicago
Madaj, Benjamin Frank, Chicago
Maggio, Peter Daniel, Chicago
Magid, Richard Kenneth, Chicago
Molas, Walter Anthony, Chicago
Naslund, Halger Carl, Chicago
Perrelli, Salvatore. Cicero
Pertzovsky, Louis, Chicago
Phelan, Harry John, Lincoln
Prybylo, Chester Louis, Chicago
Pulik, Harry, Chicago
Rachielles, William DeLos, Batavia
Raispis, James Charles, Chicago
Rapp, Nathan, Chicago
Ravegnani, Anthony Daniel, Chicago
Reinhold, Gust Lawrence, Chicago
Rollinson, Stewart John, Joliet
Rosenblatt, David Edmund, Chicago
Roth, Malvern Mack, Chicago
Rutgard, Joseph, Chicago
Salamie, Nicholas, Chicago
Schlan, George Leon, Chicago
Selwitz, Harry, Chicago
Serpico, Dominick Peter, Chicago
Sevelow, Harry, Chicago
Seyffert, Harold George, Chicago
Sherman, Sol Charles, Chicago
Shrout, Duane Call, Taylorville
Singer, Harry Calvin, Chicago
Sommer, Robert Harry, Chicago
Steinberg, Sam, Chicago
Stepek, Vivian Leona, Chicago
Sweet, Jason Jay, Chicago
Swingle, Dillon W., Hillsboro
Thompson, Clarence, Waterman
Tinaglia, Joe Peter, Chicago
Topf, Grace Ellen, Chicago
Toynton, Hollis John, Palatine
Traficante, Daniel, Chicago
Triscinzzi, Amideo R., Chicago
Vlack, Edward Frank, North Chicago
Warzecha, Joseph, Chicago
Weinstein, Meyer, Chicago
Whitelock, Leon Marshall, Karnak
Wiltgen, Raymond John, Chicago
Wirkus, Sister Mary Leonica, Chicago
Zeman, Beatrice, Cicero
Zeman, Robert Irvin, Chicago
Zuck, Floyd Stanton, Rockford
Zychowicz, Anthony Francis, Chicago

THE LIBRARY OF THE
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UNIVERSITY OF ILLINOIS

THE UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

(College of Physicians and Surgeons of Chicago 1881-1900)

Offers a five-year course (including one year of interne service in an approved hospital) leading to the degree of Doctor of Medicine. The degree of Bachelor of Science is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with an average of not less than 3.5 (about 83%) in all collegiate work.

For circular with detailed information address
The Dean, College of Medicine, University of Illinois
1853 West Polk Street, Chicago, Illinois

THE UNIVERSITY OF ILLINOIS
COLLEGE OF DENTISTRY

Offers a four-year course of instruction leading to the degree of Doctor of Dental Surgery. The degree of Bachelor of Science in Dentistry is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with the following prescribed distribution:

	Semester Hours
Chemistry (including 4 hours of organic chemistry)	12
Physics	6
Biology	6
English	6
Electives (exclusive of military, hygiene, and physical education)	30
Total	60

To establish eligibility to the degree of Bachelor of Science, a slightly modified distribution of entrance requirements is necessary.

For circular with detailed information address
The Dean, College of Dentistry, University of Illinois
1838 West Harrison Street, Chicago, Illinois

UNIVERSITY OF ILLINOIS

Colleges and Schools at Urbana

COLLEGE OF LIBERAL ARTS AND SCIENCES.—General curriculum with majors in the humanities and sciences; specialized curricula in chemistry and chemical engineering; general courses preparatory to the study of law and journalism; pre-professional training in medicine, dentistry, and pharmacy.

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION.—Curricula in general business, trade and civic secretarial service, banking and finance, insurance, accountancy, transportation, commercial teaching, foreign commerce, industrial administration, public utilities, and commerce and law.

COLLEGE OF ENGINEERING.—Curricula in agricultural engineering, ceramics, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering physics, general engineering, mechanical engineering, metallurgical engineering, mining engineering, and railway engineering.

COLLEGE OF AGRICULTURE.—Curricula in agriculture, floriculture, general home economics, and nutrition and dietetics.

COLLEGE OF EDUCATION.—Curricula in education, agricultural education, home economics education, and industrial education. The University High School is the practice school of the College of Education.

COLLEGE OF FINE AND APPLIED ARTS.—Curricula in architecture, landscape architecture, music, and painting.

COLLEGE OF LAW.—Professional curriculum in law.

SCHOOL OF JOURNALISM.—General and special curricula in journalism.

SCHOOL OF PHYSICAL EDUCATION.—Curricula in physical education for men and for women.

LIBRARY SCHOOL.—Curriculum in library science.

GRADUATE SCHOOL.—Advanced study and research.

University Extension Division.—For a list of correspondence courses conducted by members of the faculties of the colleges and schools at Urbana and equivalent to courses offered to resident students, address the Director of the Division of University Extension, 112 University Hall, Urbana, Illinois.

Colleges in Chicago

COLLEGE OF MEDICINE.—Professional curriculum in medicine.

COLLEGE OF DENTISTRY.—Professional curriculum in dentistry.

COLLEGE OF PHARMACY.—Professional curriculum in pharmacy.

University Experiment Stations, and Research and Service Bureaus at Urbana

AGRICULTURAL EXPERIMENT STATION
AGRICULTURAL EXTENSION SERVICE
ENGINEERING EXPERIMENT STATION
BUREAU OF BUSINESS RESEARCH
BUREAU OF COMMUNITY PLANNING
BUREAU OF EDUCATIONAL RESEARCH
BUREAU OF INSTITUTIONAL RESEARCH

State Scientific Surveys and Other Divisions at Urbana

STATE GEOLOGICAL SURVEY
STATE NATURAL HISTORY SURVEY
STATE WATER SURVEY
STATE HISTORICAL SURVEY
STATE DIVISION OF PLANT INDUSTRY
STATE DIAGNOSTIC LABORATORY (Animal Pathology)
U. S. GEOLOGICAL SURVEY, WATER RESOURCES BRANCH
U. S. WEATHER BUREAU STATION

For general catalog of the University, special circulars, and other information, address

THE REGISTRAR, UNIVERSITY OF ILLINOIS,
URBANA, ILLINOIS

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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

Announcement for
1936-1937

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

UNIVERSITY OF ILLINOIS CIRCULAR
Published four times a year in the months of March, June, July, and August, at Chicago, Illinois

VOL. XXII JULY, 1936 No. 3

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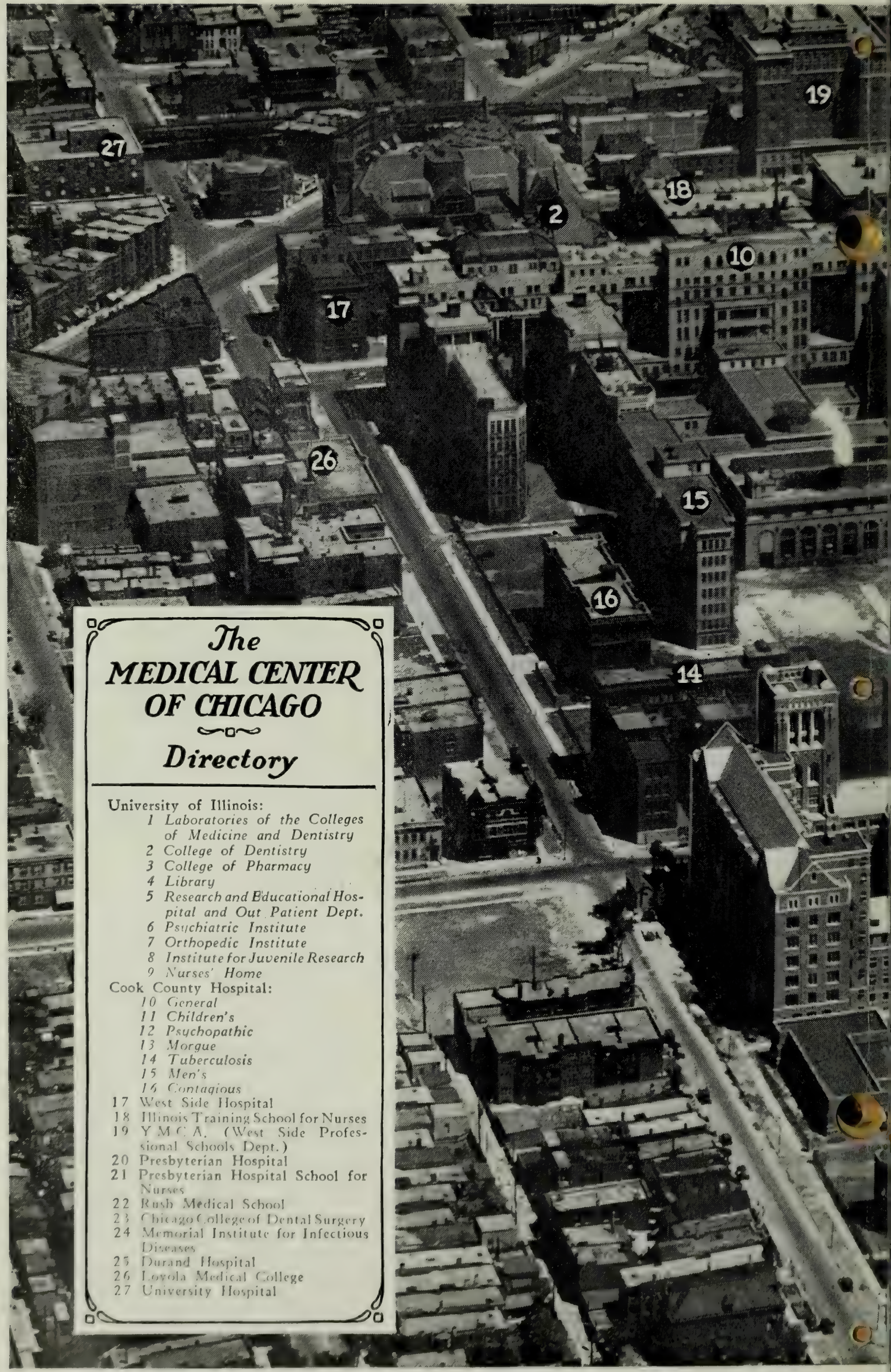


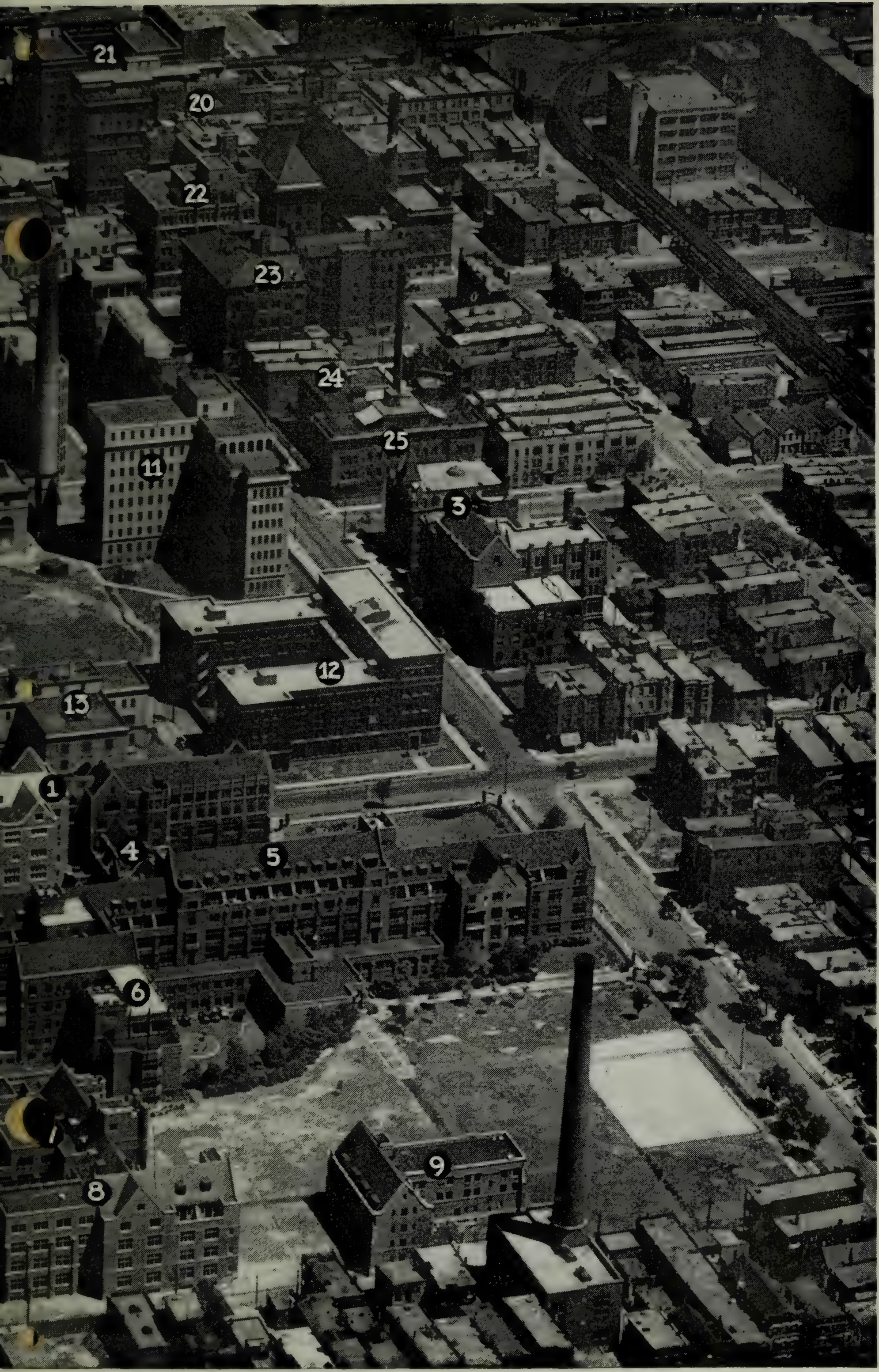
The MEDICAL CENTER OF CHICAGO

Directory

University of Illinois:
- *1 Laboratories of the Colleges of Medicine and Dentistry*
- *2 College of Dentistry*
- *3 College of Pharmacy*
- *4 Library*
- *5 Research and Educational Hospital and Out Patient Dept.*
- *6 Psychiatric Institute*
- *7 Orthopedic Institute*
- *8 Institute for Juvenile Research*
- *9 Nurses' Home*

Cook County Hospital:
- *10 General*
- *11 Children's*
- *12 Psychopathic*
- *13 Morgue*
- *14 Tuberculosis*
- *15 Men's*
- *16 Contagious*

17 West Side Hospital
18 Illinois Training School for Nurses
19 Y.M.C.A. (West Side Professional Schools Dept.)
20 Presbyterian Hospital
21 Presbyterian Hospital School for Nurses
22 Rush Medical School
23 Chicago College of Dental Surgery
24 Memorial Institute for Infectious Diseases
25 Durand Hospital
26 Loyola Medical College
27 University Hospital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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

[Chicago College of Pharmacy 1859-1896]

Announcement for 1936-37

[Seventy-sixth Annual Announcement]

715 SOUTH WOOD STREET
CHICAGO, ILLINOIS
1936

2500—5-36—9625-S

UNIVERSITY
OF ILLINOIS
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COLLEGE CALENDAR

First Semester

1936

Sept. 21-26, Monday-Saturday	Special examinations.
Sept. 28, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Sept. 29, Tuesday, 8 A.M.	Instruction begun.
Nov. 26, Thursday	Thanksgiving day.
Dec. 19, Saturday, 12 M.	Holiday recess begun.

1937

Jan. 4, Monday, 8 A.M.	Instruction resumed.
Feb. 1, Monday	Semester examinations begun.
Feb. 6, Saturday	Semester examinations ended.

Second Semester

Feb. 8, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Feb. 9, Tuesday, 8 A.M.	Instruction begun.
Mar. 25, Thursday, 5 P.M.	Easter recess begun.
Mar. 29, Monday, 8 A.M.	Instruction resumed.
May 27, Thursday	Final examinations begun.
May 30, Sunday	Memorial day.
June 2, Wednesday	Final examinations ended.
June 10, Thursday	Class day and alumni meeting.
June 11, Friday	Commencement exercises.

UNIVERSITY OF ILLINOIS
BOARD OF TRUSTEES

MEMBERS EX OFFICIO

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JOHN A. WIELAND, *Superintendent of Public Instruction*	Springfield

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(Term 1933-1939)

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(Term 1935-1941)

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Library.—O. F. KAMPMEIER (Chairman), O. BERGEIM, B. FANTUS, F. K. HICK, R. G. KESEL, E. OLDBERG, W. F. PETERSEN, I. SCHOUR, P. L. SCHROEDER, M. B. VISSCHER.

Policy and Discipline.—D. J. DAVIS (Chairman), W. B. DAY, F. B. NOYES.

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LEO L. MRAZEK, Chicago
JOHN H. HARSCH, Peoria
FRED W. RAUTH, Springfield
BYRON ARMSTRONG, Jacksonville

FACULTY OF THE COLLEGE OF PHARMACY

1935-36

Professors

William Baker Day, Ph.G., Pharm.M., *Dean of the College of Pharmacy and Professor of Materia Medica and Botany*
Clyde Mason Snow, Ph.G., A.M., *Professor of Pharmacy*
Albert Henry Clark, Ph.G., M.S., *Professor of Chemistry*
Edmund Norris Gathercoal, Ph.G., Pharm.M., *Professor of Pharmacognosy*

Assistant Professors

Hugh Leslie Davis, Ph.D., *Assistant Professor of Chemistry*
Ralph Eugene Terry, Ph.G., M.S., *Assistant Professor of Pharmacy*
Elmer Hauser Wirth, Ph.C., Ph.D., *Assistant Professor of Pharmacognosy*

Associates

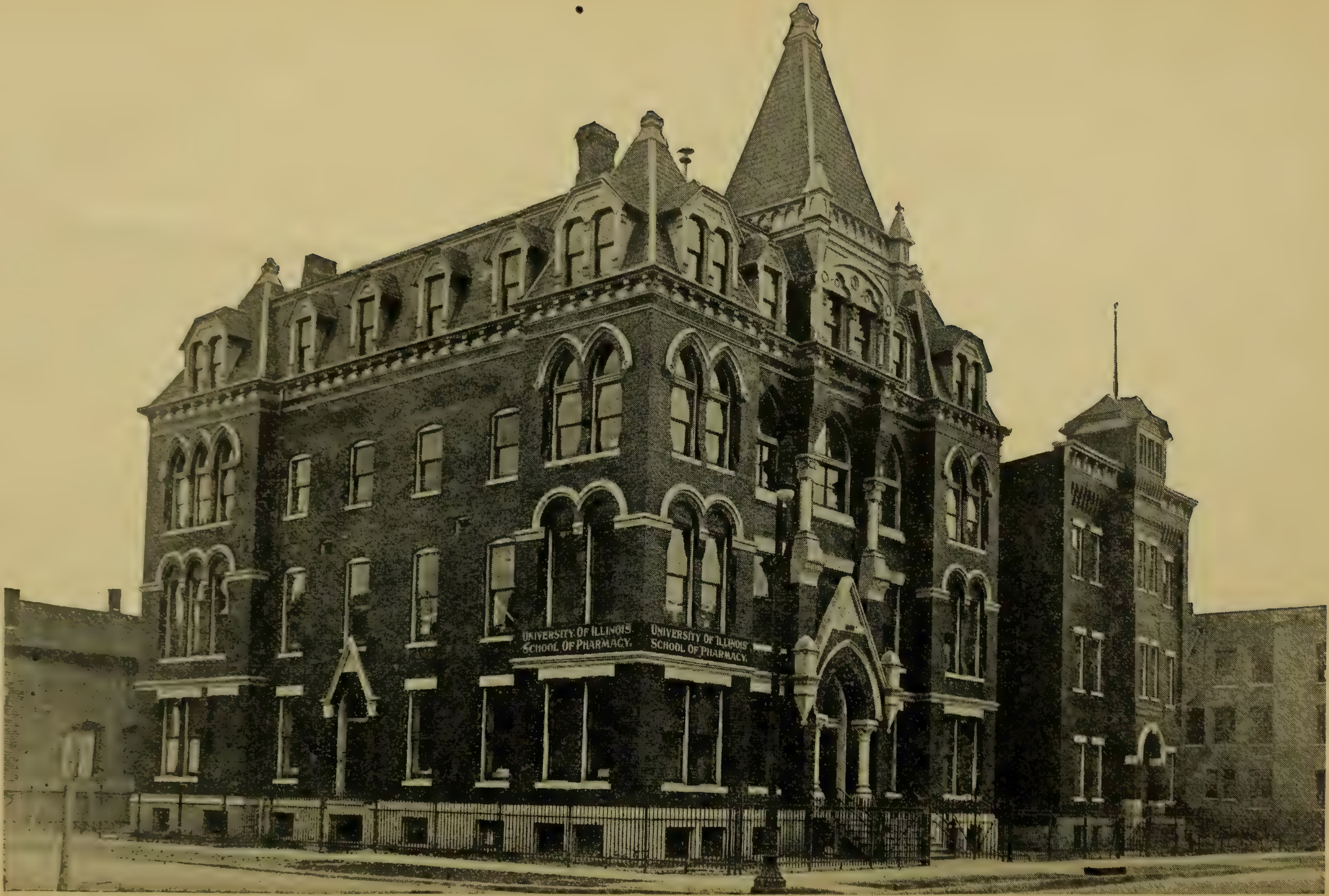
Charles Wildman Clarke, M.S., *Associate in Chemistry*
Sherman William Morrison, Ph.C., M.S., *Associate in Pharmacy and Pharmacist in the Drug Room*
Herbert Martin Emig, Ph.G., M.S., *Associate in Pharmacy in charge of Physiology*
Leonard Dana Powers, Ph.D., *Associate in Physics*

Instructors

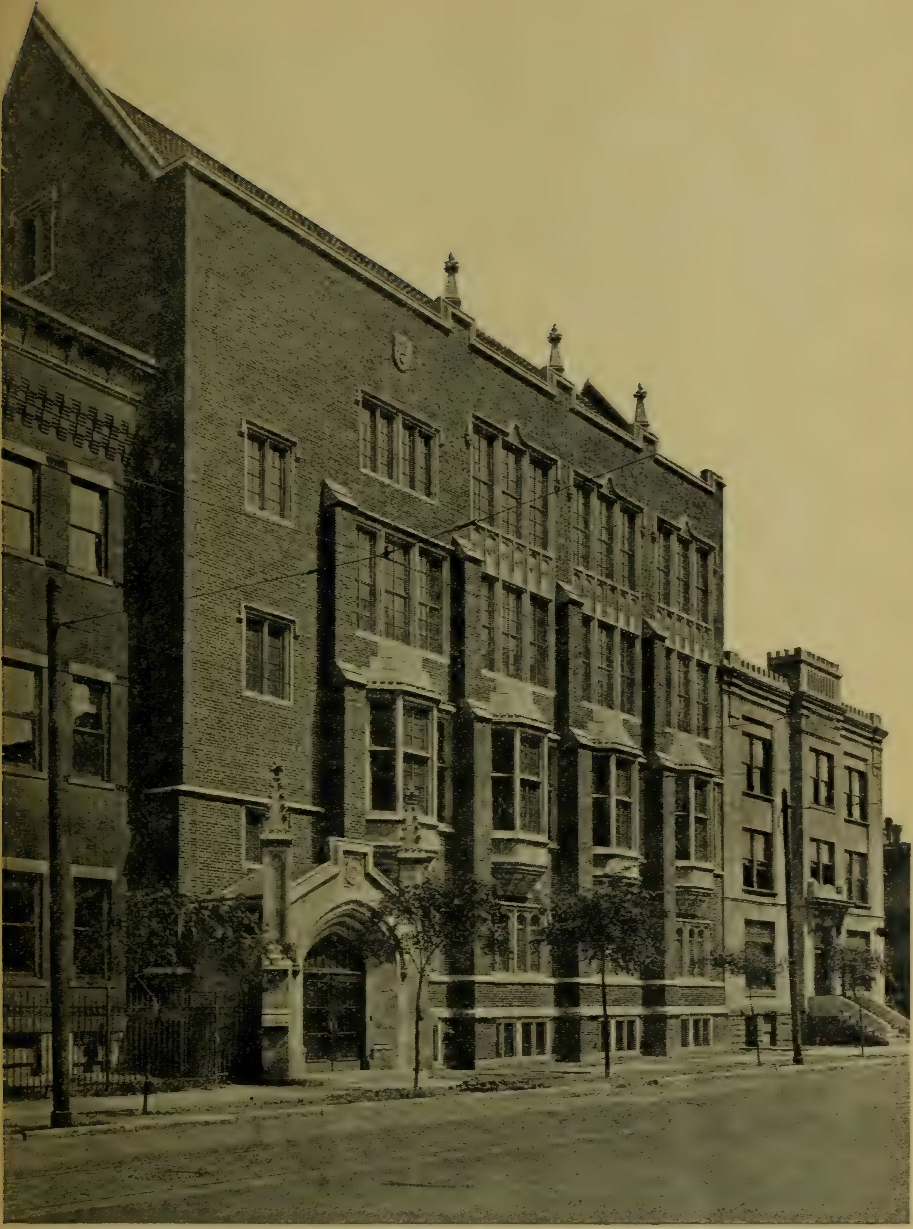
Lewis Elbert Martin, Ph.G., B.S., *Instructor in Pharmacy*
Samuel Shkolnik, Ph.G., LL.M., *Instructor in Pharmacy*
Paul David Carpenter, Ph.G., M.S., *Instructor in Materia Medica and Botany*
Esther Meyer, Ph.G., M.S., *Instructor in Bacteriology*
Cliveden Llwyd Cox, Ph.C., M.S., *Instructor in Pharmacognosy*
Urban Oscar Oakdale, Ph.G., Ph.D., *Instructor in Chemistry*
Joseph Charles Ocenasek, Ph.G., B.S., *Instructor in Pharmacy*

Assistants

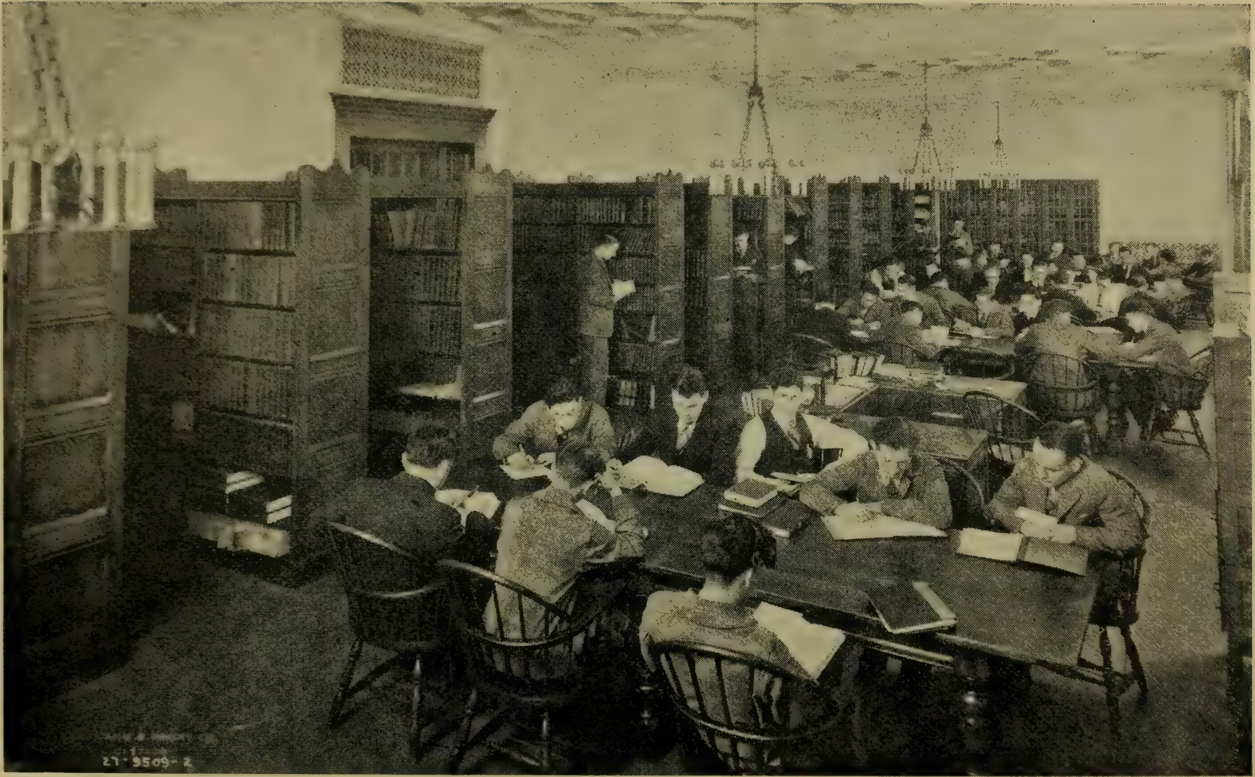
Lawrence Templeton, Ph.C., M.S., *Assistant in Pharmacy*
Ernst Rudolf Kirch, Ph.C., M.S., *Assistant in Chemistry*
Paul Gotfried Soderdahl, Ph.C., M.S., *Assistant in Chemistry*
Marion Kasbeer, B.S., *Assistant in Chemistry*
Raymond Sigfrid Adamson, Ph.C., *Assistant in Materia Medica and Botany*
Gerston Bruch, Ph.C., *Assistant in Materia Medica and Botany*
Bernard Benjamin Brody, Ph.C., *Assistant in Pharmacy*
Solomon Gershon, Ph.C., M.S., *Assistant in Chemistry*
William Robert Collins, Ph.C., *Assistant in Pharmacy and Assistant Pharmacist in the Drug Room*
Edward Ernest Vicher, B.S., *Assistant in Materia Medica and Botany*


UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.
UNIVERSITY OF ILLINOIS
SCHOOL OF PHARMACY.

THE NORTH BUILDINGS



THE NEW BUILDING AND THE SOUTH BUILDING



LIBRARY

THE COLLEGE OF PHARMACY

History

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry, and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the trustees and officers of the University have had the assistance of an advisory board of pharmacists nominated by the pharmacists of the state, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy Streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

Location

The location of the College of Pharmacy is in the great medical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of 280 feet on Wood Street and 124 on Flournoy Street.

Buildings and Equipment

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, a physics laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains two classrooms each seating 36 persons, offices, and students' rooms.

LECTURE ROOMS.—There are two lecture rooms seating respectively 150 and 120 persons and three smaller classrooms seating respectively 36, 36, and 72 persons.

LABORATORIES.—Eleven laboratories having a total capacity of 725 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air. In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. Machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

LIBRARY.—The Library contains over six thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files

of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

MUSEUM.—The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens. Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

STUDENTS' ROOMS.—Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

Requirements for Admission

Applicants for admission to the College of Pharmacy of the University of Illinois must present satisfactory evidence of five years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives (not more than 4 units from non-academic subjects)	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (including algebra and trigonometry)	5

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected for admission, but such subjects may be offered for credit on the pharmacy curriculum. As desirable electives the following are recommended: accountancy, history, zoology, and economics.

PREFERENCE TO ILLINOIS RESIDENTS.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

NON-ILLINOIS STUDENTS.—All applicants for admission, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the college from which they would enter the University of Illinois, a scholastic average at least ten percent above the passing grade of such college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade; e.g., in a system of A, B, C, and D, with D as the passing grade, the average must be C.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

STATE QUALIFYING CERTIFICATE.—The Department of Education and Registration of the State of Illinois requires each student entering a recognized college of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the college, and blanks will be supplied by the college for the convenience of students in making this application.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The candidate for the degree of Bachelor of Science must meet the following requirements:

1. He must show evidence of good moral character.
2. He must have paid all indebtedness to the University.
3. He must have successfully completed the prescribed courses, of which at least the last year must have been at the University of Illinois.
4. He must have secured grades of not less than "C" in subjects aggregating at least three-fourths of the work taken in the College of Pharmacy and required for the degree.

Graduation With Honors

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: For an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the Commencement program.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of

Registration and Education, and who has had four years' experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years' experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as an apprentice as early as possible.

Fees and Expenses

	Sophomore Year		*Junior Year*		*Senior Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition[2]	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[3]	23.00	29.00	36.00	27.00	35.00	31.00
Graduation fee	.....	.....	.....	.....	.....	10.00
Totals[4]	$83.00	$79.00	$86.00	$77.00	$85.00	$91.00

ADDITIONAL FEES.—Duplicate diploma, $10.00. Original transcript of record, $1.00;[5] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of $5.00 will be charged to students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00 if residents of Illinois, or $20.00 if not residents of Illinois.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation fees.

CHANGE FEE.—For every change of study-list made later than the Monday noon following registration, a fee of $1.00 is charged, except that the total charge for the rearrangement authorized on any one change slip shall not exceed $2.00.

SERVICE CHARGE FOR DEFERRED FEES.—Under certain conditions, students may arrange for the payment of their fees in installments, in which case a service charge of ten per cent of the amount not paid on registration days is assessed.

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[1] The matriculation fee is not required of students who have previously matriculated in any other college of the University of Illinois.

[2] The tuition fee of $50.00 each semester applies to students who are residents of Illinois. Those who are *not* residents of Illinois pay a tuition fee of $75.00 each semester. Students registered for ten hours or more in any one semester pay the full tuition fee ($50.00 if residents, $75.00 if not residents). Students registered for less than ten hours in any one semester pay $5.00 per credit hour if residents of Illinois, or $7.50 per credit hour if not residents of Illinois.

[3] The laboratory fee covers all drugs, chemicals, and other material used by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[4] **These totals apply to students who are residents of Illinois. Others see note 2 above.**

[5] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The new ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

GENERAL ASSEMBLY SCHOLARSHIPS.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

STATE MILITARY SCHOLARSHIPS.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a college of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a college of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one college.

Ebert Loan Fund

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. 'The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount of the fund is $2,033.32. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Prizes

PHARMACY PRIZE.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in pharmacy.

CHEMISTRY PRIZE.—Mr. Herman Elich, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in chemistry.

HODEL-SALTIEL-HODEL PRIZE.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

PEDIGO PRIZE.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

AMERICAN PHARMACEUTICAL ASSOCIATION MEMBERSHIP.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumna of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in materia medica.

LAMBDA KAPPA SIGMA KEY. — Gamma Chapter of Lambda Kappa Sigma pharmaceutical sorority offers a prize, consisting of a key, to the member of the sorority who obtains the highest average in the entire course leading to the degree.

Organizations

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

Phi Chapter of Rho Chi, national honorary pharmaceutical society, organized to promote the advancement of the pharmaceutical sciences, is located at the College. Meetings for the discussion of the pharmaceutical sciences are held at stated times during the session. Elections to the society are held annually. Students who have completed 75 hours of scholastic work and have attained an average of at least 85 per cent or its equivalent are eligible for membership.

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

For further information or for an application blank, address

THE DEAN, COLLEGE OF PHARMACY
715 South Wood St., Chicago, Ill.

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of work in a recognized college or university and consists of not less than 30 semester hours as specified on page 13 of this circular.

The first year of this curriculum as offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana is as follows:

Freshman Year

First Semester	Hours	*Second Semester*	Hours
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-0	Electives[1]	5
Physical Education		Physical Education	
Hygiene		Military (for men)	
Military (for men)			
Total	15	Total	15

MATERIA MEDICA AND BOTANY

Professor Day, Professor Gathercoal, Assistant Professor Wirth,
Mr. Emig, Mr. Carpenter, Miss Meyer, Mr. Cox,
Mr. Adamson, Mr. Bruch, Mr. Vicher

Sophomore Year

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.
Professor Day, Professor Gathercoal, Mr. Carpenter

22. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.
Professor Gathercoal, Mr. Carpenter

Junior Year

31. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, including their titles, synonyms, definitions, collection, preservation, identification, standardization, therapeutic use, and dose. The vegetable drugs are classified according to botanical source and the animal drugs according to zoological source. The laboratory work includes a study of the crude drugs in whole and powdered form, leading to their recognition and the determination of their quality and purity by organoleptic, microscopic, and micro-chemical means. Two

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. Botany, Physiology, Physics, Bacteriology, and additional courses in Chemistry are *not* accepted.

lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. *Prerequisite:* Plant Histology course 22. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

32. *Pharmacognosy.*—A continuation of Course 31. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

34. *Physiology.*—A course in which the important features concerning the anatomy, physiology, and hygiene of the various systems of the human body are studied. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Mr. EMIG

Senior Year

41. *Bacteriology.*—Characteristics of bacteria, yeasts, and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants, and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. VICHER

42. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester. Professor DAY, Assistant Professor WIRTH, Miss MEYER

44. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, based upon their important constituents. The laboratory work includes the micro-isolation of the constituents from drug material and the identification of these constituents by microscopical and micro-chemical means. The groups studied include carbohydrates, mucilages and gums, glucosides, alkaloids, fixed oils, volatile oils, oleoresins, resins, balsams, tannins, phloroglucinol derivatives, enzymes, hormones, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First or second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Assistant Professor WIRTH, Mr. ADAMSON

46. *Microscopy of Foods.*—Optional. Should be elected simultaneously with Chemistry course 44. May be elected in lieu of Pharmacognosy course 44 only by special permission of the head of the department. A microscopical study of foods including cereals and cereal products, spices and condiments, oil seeds and oil cakes, legumes, nuts, fruit and fruit products, vegetables, tea, coffee, cocoa, etc., including their identification and the determination of their quality and purity by microscopical means. Special reference will be made to legal standards governing these foods. Food products purchased in the open market will be brought to the laboratory for examination. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Assistant Professor WIRTH, Mr. ADAMSON

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Mr. CLARKE, Dr. POWERS,
Dr. OAKDALE, Mr. KIRCH, Mr. SODERDAHL,
Miss KASBEER, Mr. GERSHON

Sophomore Year

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. (Required of all students.) Two one-hour class periods and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. Mr. CLARKE, Mr. GERSHON

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four one-hour class periods and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. KIRCH

24. *General Physics.*—A general discussion of the fundamental principles of mechanics, heat, and sound. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) Second semester. Dr. POWERS, Mr. SODERDAHL

Junior Year

31. *Organic Chemistry.*—This course is a continuation of Chemistry 22 but is devoted almost entirely to the aromatic compounds. As in Chemistry 22, pharmaceutical applications are emphasized in both the theoretical and the laboratory work. The composition of volatile oils and the nature of their most important constituents are fully discussed. Alkaloids and related substances are extensively studied as to their constitution and its relationship to chemical and physiological action. The laboratory work is devoted to the preparation of typical substances, examination of U.S.P. products, analysis of drugs, etc. Three lectures or recitations and one four-hour laboratory period each week. (4 semester hours, 7 clock hours.) First semester.
Assistant Professor DAVIS, Mr. KIRCH

32. *Quantitative Analysis.*—The theories and technique of gravimetric and volumetric analysis are taught in this course. Whenever possible the methods of the U.S.P. are used to illustrate their application and pharmaceutical or medicinal products are used as material for practical examination. Three lectures or recitations and two three-hour laboratory periods each week. (5 semester hours, 9 clock hours.) Second semester. Mr. CLARKE, Mr. GERSHON

33. *General Physics.*—A continuation of the discussion of the principles of physics as related to the phenomena of electricity, magnetism, and light. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) First semester. Dr. POWERS, Mr. SODERDAHL

Senior Year

41. *Drug Assaying.*—A study of the principles and methods of drug standardization applied to substances included in the U.S.P. The course includes the preparation and standardization of volumetric solutions; assays of alkaloid bearing drugs, resinous drugs, essential oils, aldehydes, phenol, and nitrites; the determination of halogen in organic compounds, alcohol in pharmaceutical preparations, acid, saponification, and iodine value of fats, congealing point, refractive index, specific rotation, and kinematic viscosity. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester. Professor CLARK, Dr. OAKDALE, Miss KASBEER

42. *Advanced Drug Assaying.*—A continuation of the study of drug standardization methods as applied to commercial mixtures of medicinal chemicals, proprietary medicines, insecticides, pills, tablets, and enzymes. The quantitative methods of urine and blood analysis will be studied. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. (Not given in 1935-36.)

43. *Chemistry of Synthetic Drugs and Proprietary Medicines.*—In this course an attempt is made to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in Chemistry 22 and 31. The relationship between their chemical constitution and physiological action is constantly discussed. Two lectures or recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK

44. *Food Analysis.*—Optional. May be elected in place of Chemistry course 42 with permission of the head of the chemistry department. Offered to classes of six or more students. A study of the principles and methods of food analysis. Samples of food products will be purchased and subjected to physical and chemical examination for the detection of preservatives, added coloring, metallic poisons, and foreign substances. The chemical and physical constants of common food substances will be determined and compared with the state and federal requirements for these substances. Bottled beverages, canned vegetables, flavoring extracts, milk, butter, salad oils, table syrups, ice cream, baking powder, candy, and other food products will be examined. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. Professor CLARK, Dr. OAKDALE, Miss KASBEER

46. *Synthesis of Drugs.*—Optional. May be elected in place of Chemistry course 42 by permission of the head of the chemistry department. Offered to classes of six or more students. A continuation of the study of organic chemistry and the application of the type reactions to the manufacture of organic medicinal chemicals and their intermediates. Barbital, cinchophen, acetphenetidine, phenolphthalein, tryparsamide, hexylresorcinol, guaiacol, methylene blue, or others may be selected in consultation with the instructor. Reference to the original work on the substance elected is encouraged. One lecture or recitation

and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. (Not given in 1935-36.)

PHARMACY

Professor Snow, Assistant Professor Terry, Mr. Emig, Mr. Morrison,
Mr. Martin, Mr. Shkolnik, Mr. Ocenasek, Mr. Templeton,
Mr. Brody, Mr. Collins

Sophomore Year

21. *Theoretical Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, various modifications and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, extraction, and their modifications. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Professor Snow, Mr. Ocenasek, Mr. Shkolnik, Mr. Brody, Mr. Templeton

22. *Galenical Pharmacy and Introduction to Inorganic Pharmacy.*—The preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, pharmaceutical and technical uses, posology, and therapeutic classification. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Professor Snow, Mr. Ocenasek, Mr. Shkolnik, Mr. Brody, Mr. Templeton

23. *Pharmaceutical Physics.*—Practical application in the laboratory of the various processes and operations presented in Pharmacy 21. One recitation or lecture and one laboratory period of three hours each week. (2 semester hours, 4 clock hours.) First semester. Mr. Shkolnik, Mr. Brody, Mr. Templeton

24. *Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one three-hour laboratory period each week. (2 semester hours, 4 clock hours.) Second semester.
Mr. Shkolnik, Mr. Brody, Mr. Templeton

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Mr. Morrison, Mr. Shkolnik, Mr. Templeton, Mr. Brody

Junior Year

31. *Galenical Pharmacy and the Pharmacy of the Inorganic Compounds.*—The inorganic compounds and preparations; their source, pharmaceutic, thera-

peutic, and technical uses. The galenicals: infusions, decoctions, tinctures, fluidextracts. Solid preparations for internal use: powders, masses, pills, confections, troches, capsules, cachets, and tablets. Preparations for external use: ointments, cerates, suppositories, plasters, glycerogelatins, mulls, and medicated pencils. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

32. *Organic Pharmacy.*—A continuation of Pharmacy 31. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Mr. MARTIN, Mr. MORRISON, Mr. OCENASEK

33. *Dispensing.*—Compounding of the important solutions and mixtures of the United States Pharmacopoeia and National Formulary, intended for extemporaneous preparation. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

34. *Organic Pharmaceutical Preparations.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture or recitation and two laboratory periods of three hours each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

Senior Year

41. *Theory of Advanced Organic Pharmacy.*—A lecture course on the animal and plant drugs of the Pharmacopoeia and National Formulary as related to the practice of pharmacy. This includes their sources, methods of preparation, active constituents, therapeutic uses, doses, and antidotes if poisonous. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) First semester. *Prerequisite:* All sophomore and junior pharmacy courses, including arithmetic.

Professor SNOW, Assistant Professor TERRY, Mr. EMIG

42. *Theory of Advanced Organic Pharmacy.*—A lecture course, continuation of course 41. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) Second semester.

Professor SNOW, Assistant Professor TERRY, Mr. EMIG

43. *Advanced Operative Pharmaceutical Laboratory.*—The manufacture of complex pharmaceuticals, official and unofficial. Assayed tinctures, resins, granular effervescent salts, etc. Some time is devoted to the manufacture of cosmetics. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First semester. Assistant Professor TERRY, Mr. EMIG

44. *Advanced Dispensing Laboratory Practice.*—Compounding technics for the dispensing of complex prescription formulas. The manufacture of difficult extemporaneous preparations and the study of incompatible prescriptions with compounding practice. Pills, suppositories, cachets, tablet triturates, etc. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester. Assistant Professor TERRY, Mr. EMIG

45. *Seminar in Library Practice.*—A study of pharmaceutical literature, scientific and commercial. Library arrangement and practice. Preparation of a series of reports covering selected topics. One recitation each week. (1 semester hour, 1 clock hour.) First semester.

Assistant Professor TERRY, Mr. EMIG

46. *Seminar in Commercial Pharmacy.*—A discussion of commercial pharmaceutical practices. One recitation each week. (1 semester hour, 1 clock hour.) Second semester. Assistant Professor TERRY, Mr. EMIG

48. *Business Law.*—A presentation of the fundamentals of commercial laws with special reference to their application to the retail drug business; principles of contracts, leases, agency, corporations, partnerships, bills and notes, chattel mortgages, conditional sale agreements, consignments, sales, bulk sales, and insurance. A discussion of federal, state, and local laws pertaining to the practice of the profession of pharmacy and to the conduct of a retail drug store; pure food and drug laws and regulations; poison, narcotic, and liquor laws and regulations; pharmacy ownership laws; common law and statutory rights, privileges, duties, and liabilities of registered pharmacists, assistant pharmacists, pharmacy apprentices, employers, and employees; and matters of reciprocity. Trade marks, copyrights, and patents relating to pharmaceutical preparations, apparatus, and processes. One hour lecture each week. (1 semester hour, 1 clock hour.) Second semester. Mr. SHKOLNIK

50. *Hospital Practice.*—Affiliated with the College is the Research and Educational Hospital where each candidate for the degree must work not less than 50 clock hours. This requirement may be met during the junior and senior years. The candidate prepares pharmaceutical preparations and compounds prescriptions from the physicians of the clinics and hospital. (1 semester hour.)

Mr. MORRISON, Mr. COLLINS

SUMMARY OF CURRICULUM LEADING TO B.S. DEGREE

Freshman Year

Thirty semester hours in an accredited college of liberal arts, including the specific requirements listed on page 13 of this circular.

Sophomore Year

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Didac.	Lab.		
Pharm. 21.—Theoretical Pharmacy......	3	..	3	3
Pharm. 23.—Pharmaceutical Physics....	1	3	4	2
Pharm. 25.—Arithmetic................	3	..	3	3
Chem. 21.—Qualitative Analysis........	2	6	8	4
Mat. Med. & Bot. 21.—General Botany..	3	3	6	4
Total for semester.................	12	12	24	16

Second Semester

Pharm. 22.—Galenical Pharmacy.......	3	..	3	3
Pharm. 24.—Operative Pharmacy.......	1	3	4	2
Chem. 22.—Organic Chemistry.........	4	4	8	5
Chem. 24.—General Physics............	3	3	6	4
Mat. Med. & Bot. 22.—Plant Histology..	2	6	8	4
Total for semester.................	13	16	29	18

Junior Year

First Semester

Pharm. 31.—Galenical Pharmacy.......	3	..	3	3
Pharm. 33.—Dispensing................	1	6	7	3
Chem. 31.—Organic Chemistry.........	3	4	7	4
Chem. 33.—General Physics............	3	3	6	4
Mat. Med. & Bot. 31.—Pharmacognosy..	2	6	8	4
Total for semester.................	12	19	31	18

Second Semester

Pharm. 32.—Organic Pharmacy.........	3	..	3	3
Pharm. 34.—Organic Preparations.......	1	6	7	3
Chem. 32.—Quantitative Analysis.......	3	6	9	5
Mat. Med. & Bot. 32.—Pharmacognosy..	2	6	8	4
Mat. Med. & Bot. 34.—Physiology......	3	..	3	3
Total for semester.................	12	18	30	18

Senior Year

First Semester

	Clock hours each week Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 41.—Advanced Organic Pharmacy	3	..	3	3
Pharm. 43.—Operative Laboratory......	..	6	6	2
Pharm. 45.—Seminar..................	1	..	1	1
Chem. 41.—Drug Assaying.............	1	8	9	3
Chem. 43.—General Organic Chemistry..	2	..	2	2
Mat. Med. & Bot. 41.—Bacteriology†....	3	9	12	6
Total for semester.................	10	23	33	17

Second Semester

	Clock hours each week Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 42.—Advanced Organic Pharmacy	3	..	3	3
Pharm. 44.—Dispensing................	..	6	6	2
Pharm. 46.—Seminar..................	1	..	1	1
Pharm. 48.—Business Law.............	1	..	1	1
Pharm. 50.—Hospital Practice..........	..	..*	..*	1
Chem. 42.—Drug Assaying.............	1	8	9	3
Mat. Med. & Bot. 42.—Materia Medica..	3	..	3	3
Mat. Med. & Bot. 44.—Pharmacognosy† .	1	6	7	3
Total for semester.................	10	20	30	17

Note: The minimum number of semester hours required for the B.S. degree is 134.

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*A minimum of 50 clock hours in the hospital pharmacy department.

†May be taken either semester.

DEGREES CONFERRED, 1935

Degree of Pharmaceutical Chemist

Conferred in February, 1935

Hyman Africk*
Leonard Denenholz*
Maria Raphaella DiGilio
Max Drexler*
Sam Drexler*
Joseph James Flanagan
Henry Gardner*
Aaron Archie Goldin*
Robert William Hoft
John Stanley Jankowski
Edward Abraham Karsa
Talmage Wilfred Kisner*
Joseph Klima
David Kukee
Arthur Leonard Lampert*
Louis Lerner
Edward Victor Lesinski
Edward Joseph McKenna
Benjamin Frank Madaj
Salvatore Perrelli
James Charles Raispis
Leon Zee Seltzer*
Dominick Peter Serpico
Nathan Stein*
Joseph Francis Valvoda, Jr.*
Melvin Witkin*

Conferred in June, 1935

Harry William Adams*
Frances Lillian Baker
Bernard B. Berman
Esther Berman
Charles Henrie Billups
Theodore Hyman Blonder
Milton Seymour Bower
Herbert Bernard Braverman
Maxwell Broskuf
George Edward Bruha*
David Thiel Burger
Anthony Charles Chiaramonte
Jerry Chuman
Minnie Cohen
Reece Carlyle Covalt
Peery August Duderstadt
Gerald Gail Edwards
Leonard Harold Feinberg
Ann Sophia Giacinti
Edward Joseph Glaser
Arthur Ira Goodman
Willard Green
Kenneth Herbert Harris
Felix Herbstman
Sister Mary Getulia Honorowski
Jaroslav J. Horacek
Anthony Andrew Indovina
Anthony Jacob
Edward Charles Jankauskas
Lillian Ella Janosik
Roland Frank Koepke
Henry Charles Kot
John F. Lacey
Sol Lapofski
Joseph Louis Latelle
Victor Emanuel Lawrence
Frank Lee
Joseph Anthony Lentino
Lena Armida Leonard
Walter Anthony Molas
Halger Carl Naslund
Louis Pertzovsky
Harry John Phelan
Harry George Pulik
William DeLos Rachielles
Nathan Rapp
Gust Lawrence Reinhold
Stewart John Rollinson
David Edmund Rosenblatt
Malvern Mack Roth
Nicholas S. Salamie
George Leon Schlan
Meyer Scholnick*
Harry Selwitz
Harry Sevelow
Harold George Seyffert
Duane C. Shrout
Harry Calvin Singer
Robert Harry Sommer
Sam Steinberg
Vivian Leona Stepek
Jayson Jay Sweet
Dillon W. Swingle, Jr.
Clarence Thompson
Joe Peter Tinaglia
Grace Ellen Topf
Hollis John Toynton
Daniel A. Traficante

---

*Students who completed their requirements in June, 1934, but who were not twenty-one years of age at that time.

Amideo R. Triscinzzi
Joseph Warzecha
Meyer Weinstein
Leon Marshall Whitelock
Raymond John Wiltgen
Sister Mary Leonica Wirkus
Beatrice A. Zeman
Robert Irvin Zeman
Theodore Clarence Zeman*
Floyd Stanton Zuck
Anthony Francis Zychowicz

Degree of Bachelor of Science in Pharmacy

Conferred in June, 1935

Sam Roy Androfsky
Sam Chadnowsky
Abe Albert Danish
Harold Finkelstein, with Honors
Mandel Max Jacobson
Harry Karl Kuhrt
Walter Andrew Madej
Anne Frances Putyra
Harry Max Rayman
Abe Moe Rosen
Roy Kenneth Snyder, B.S., M.S.
Edward Ernest Vicher, with Honors
Ferdinand Benjamin Zienty, with High Honors

PRIZES, 1935

Samuel L. Antonow Prize in Pharmacy	Sister Leonica Wirkus
Herman Elich Prize in Chemistry	Edward Ernest Vicher
William Gray Prize for Dispensing	Sister Getulia Honorowski
Hodel-Saltiel-Hodel Prize for General Scholarship	Ferdinand Benjamin Zienty
Lambda Kappa Sigma Key in Pharmacy	Vivian Stepek
Lee M. Pedigo Prize in Materia Medica	Harold Finkelstein
Alice E. Pelikan Prize in Materia Medica	Charles Henrie Billups
Andrew Sherer Prize in Pharmacy	Perry August Duderstadt

REGISTER OF STUDENTS, 1935-36

Candidates for the Degree of Bachelor of Science in Pharmacy

Sophomores

Alix, Max John—Chicago
Allen, Herbert Rexford—Chicago
Becker, Henry—Chicago
Becker, Irwin—Chicago
Begun, Martin—Chicago
Belzowski, Joseph Peter—Chicago
Berger, Edward—Chicago
Boffa, John Angelo—Chicago
Brown, Harry G.—East Chicago, Indiana
Chirs, Walter Edward—Chicago
Cohen, Jules—Chicago
Crain, Jared Walter—Maywood
Denton, Dorice Charles—Galesburg
Eberly, Ralph M.—Aurora
Eisele, Henry Pusey—Chicago
Favinski, Frank John—Chicago
Featherston, Lauren Richard—Kingsley, Iowa
Feldstein, Abe—Chicago
Finkel, Dave—Chicago
Frank, Ben—Chicago
Friesenecker, Glenn Edward—Chicago
Ginsburg, Herbert R.—Chicago
Gurskis, Joseph E.—Chicago
Hamilton, David Orland, B.S.—Monmouth
Hart, Marshall Vaughn—Ullin
Hendricks, John Wilcox—Sterling
Jakopich, Charles—Chicago
Jancauskas, Joseph Benedict—Cicero
Jung, Eugene Joseph—Chicago
Kalachnik, John—Chicago
Kanapackis, Stephany Lucille—Chicago
Katz, Herman—Chicago
Klotz, Julius Carl—Chicago
Kocielski, Pearl—Chicago
Kopec, Walter Andrew—Chicago
Kopecky, Frank Henry—Cicero
Koval, Alphonse Joseph—Chicago
Kozlicki, Frank—Chicago
Krugly, Bernard—Chicago
Krupsky, Abe Morris—Chicago
Lander, Norman Meyer—Chicago
Leininger, Eleanor Lee—Chicago
Lindblade, Victor Yngve—Chicago
Lizzadro, Antoinette—Chicago
Lund, John—Chicago
Maniates, Louis George—Chicago
Maranda, John Marian—Chicago
Marty, Sister Mary Carl—Springfield
Mather, Elton—Chicago
Mazonas, Joseph J.—Chicago
Mladinov, Francis Anthony—Chicago
Mosoff, Simon—Chicago
Mrazek, Charles Joseph—Chicago
Newland, Henry—Chicago
Niedly, Adeline—Chicago Heights
Nowak, Mitchel Joseph—Chicago
Patka, Virginia Rita—Chicago
Piechocki, Edmund—Chicago
Piotrowski, Walter Joseph—Chicago
Pleshar, Adalbert Joseph—Chicago
Pruszynski, Martha Helen—Chicago
Pyskaty, John Ignatius—Chicago
Richardson, Thomas—Chicago
Romanski, Henry Joseph—Berwyn
Rose, Marshall A.—Chicago
Ryba, Milton—Berwyn
Sagona, Frank Michael—Rockford
Schiff, Alfred Daniel—Chicago
Schlachet, Daniel Byron—Chicago
Shipkin, Hyman—Chicago
Silverman, Irving—Chicago
Skembare, George—Chicago
Sloan, Udi Joseph—Chicago
Smith, Stella Sandra—Chicago
Sorokin, George—Chicago
Sparks, Ralph Dale—Lincoln
Stoeffhaas, Martin Robert—Chicago
Suss, Henry—Chicago
Toczylowski, Edward L.—Chicago
Vaisvil, Isabella Antoinette—Cicero
Veaco, Sidney—Belvidere
Warsaw, Philip—Chicago
Webb, Woodrow Wilson—Maywood
Widen, Frank—Chicago
Wrobel, Thaddeus—Chicago
Yablonsky, Isadore Jack—Chicago
Yallof, Charles—Chicago
Zeitlin, Sidney H.—Chicago
Zeitz, Aleck—Chicago

Juniors

Anderson, Clifford Willard—Peoria
Becker, Charles Henry—Chicago
Bitautas, Walter A.—Kenosha, Wisconsin
Boffa, Philip Joseph—Chicago
Broccolo, Theresa Marie—Chicago
Brown, Edward Wilder—Walworth, Wisconsin
Burhop, George William, B.S.—Chicago
Cevela, Franklin Charles, B.S.—West Chicago
Cohn, Carl Albert, B.S.—Chicago
Connors, Harry James—Chicago
Damer, Edward John—Berwyn
Dargis, Marcella Leone—Chicago
Denton, Clarence Earl—Beardstown
Elam, John Wesley, B.S.—Vaughan, Mississippi
Elkin, Morris H.—Chicago
Evangelista, Sam Joseph—Chicago
Fitzgerald, Robert Frank—Morrison
Flower, Harry—Chicago
Foote, Coleman H.—Earlville
Fosen, Lloyd—Joliet
Frank, Julius—Chicago
Fredson, Samuel Joseph—Chicago
Fried, Edward Theodore—Chicago
Frosh, Alvin Joseph—Chicago
Gasen, Robert Coultas—Winchester
Goldberg, Sophie—Chicago
Goldman, Hyman Z.—Chicago
Golembo, Julius E.—Chicago
Jacobson, Jeanette Sylvia—Chicago
Kalom, Seymour Sanford—Chicago
Kaplan, Benjamin J.—Chicago
Klemme, Leonard Carl Albert—Hubbard, Iowa
Krupinski, Helen—East Chicago, Indiana
Lacey, Wilson T.—Grand Ridge
Leonard, Forrest Virgil—Chicago
Leone, Charles Joseph—Chicago
Lewis, Samuel—Chicago
McEncroe, John Robert—Chicago
McKee, Maxine Ruth—Chicago
Madison, Ruth—Chicago
Marder, Herbert Bernard—Chicago
Maher, Frank Thomas—Beardstown

Martz, Florence Louise—Chicago
Meyerovitz, Julius Alfred—Chicago
Meyrowitz, Bernard—Chicago
Muetze, Fred Theodore—Chicago
Muley, Joseph A.—Chicago
Naktin, Paul—Chicago
Osmolak, Edward Joseph—Cicero
Parks, Frank Ernest—Marion
Pickman, Nathan—Chicago
Potkin, Nathan—Chicago
Prizant, Milton S.—Chicago
Przepiorski, John Bruno—Chicago
Przudzik, Lucille—Chicago
Rabinowitz, Irving J.—Chicago
Raispis, Marie Emily—Chicago
Rimkus, Joseph—Chicago
Rosenbloom, Bernard Charles—Chicago
Rudzinski, Leonard Joseph—Chicago
Samuels, John P.—Chicago
Scaletta, Josephine Bernadette—Chicago
Schwartz, Martin—Chicago
Scotellaro, John—Chicago
Seamans, Bernard Irving—Chicago
Sellers, James B.—Chicago
Stanley, Edna Inez—Chicago
Stobart, Kenneth M.—Harrisburg
Streit, Rita Irene—Chicago
Svoboda, George Emil—Berwyn
Sypniewski, Arthur—Chicago
Uretzky, Rubin—Chicago
Warhanik, Vernon Francis—Chicago
Warzynski, Raymond Joseph—Chicago
Weiss, Alvin Clarence—Chicago
Weiss, Benjamin Maurice—Chicago
West, Stanley Miles—Belvidere
Witt, Irving Robert—Chicago
Zack, Stephanie Infantia—Chicago

Seniors

Chlebik, Sister M. Hiltrudis—Joliet
Elich, Robert William, B.S.—Chicago
Endler, Abraham—Chicago
Fetzer, Leland Everett—Rockford
Fisher, Raymond—Chicago
Fridrich, Raymond Joseph—Mt. Carmel
Gher, Walter Allen—Allendale
Higgins, Sister M. Evarista—Chicago
Hoff, William—Chicago
Horowitz, Nathan—Chicago
Hotz, Marshall—Chicago
Howell, Kenneth Lyle—Joliet
Hubler, Dorothy—Chicago
Jaruszewski, Edward John—Chicago
Kaski, Ignatius Joseph—Cicero
King, Edward Ernst—Chicago
King, Elmer Guenther—Chicago
Kolomatsky, Constantine George—Chicago
Krebs, Sister M. Ethelberta—Elgin
Lescher, Francis Xavier—Chicago
Mitacek, Jerome Martin—Chicago
Mizen, Michael Richard—Chicago
Mozenter, Carl George—Chicago
Rogowski, Edward Casimir—Chicago
Rosen, Karl Blei—Chicago
Ruttenberg, Sam—Chicago
Schallman, J. Leonard—Chicago
Schauer, Arthur Albert—Chicago
Shapiro, Jacob—Chicago
Sharka, Walter Joseph—Chicago
Silver, Herman—Chicago
Sonshine, Samuel—Chicago
Steveley, Robert Geymer—Chicago
Strout, Charles William—LaSalle
Taylor, James Willard—Gillespie
Taylor, Sidney Asher—Chicago
Tuscher, Ethel Louise—Meredosia
Volkenant, Adam Everett—Naperville

Candidates for the Degree of Pharmaceutical Chemist

Note:—The three-year curriculum leading to the degree of Pharmaceutical Chemist has been replaced by the four-year curriculum leading to the degree of Bachelor of Science in Pharmacy. Seniors of 1935-36 enrolled in the three-year curriculum are the last to receive the degree of Pharmaceutical Chemist.

Seniors

Catelani, Alfred—Chicago
Grams, Edward Thomas—Chicago
Hagal, Florian Adam—Chicago
Horvath, Bela—Chicago
Kazer, Edwin Franklin—Chicago
Ksycki, Bernard Henry—Chicago
Maggio, Peter Daniel—Chicago
Magid, Richard Kenneth—Chicago
Prybylo, Chester Louis—Chicago
Ravegnani, Anthony Daniel—Chicago
Rutgard, Joseph—Chicago
Sherman, Sol Charles—Chicago
Vlack, Edward Frank—North Chicago

THE UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

(College of Physicians and Surgeons of Chicago 1881-1900)

Offers a five-year course (including one year of interne service in an approved hospital) leading to the degree of Doctor of Medicine. The degree of Bachelor of Science is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with an average of not less than 3.5 (about 83%) in all collegiate work.

For circular with detailed information address
THE DEAN, COLLEGE OF MEDICINE, UNIVERSITY OF ILLINOIS
1853 WEST POLK STREET, CHICAGO, ILLINOIS

THE UNIVERSITY OF ILLINOIS
COLLEGE OF DENTISTRY

Offers a four-year course of instruction leading to the degree of Doctor of Dental Surgery. The degree of Bachelor of Science in Dentistry is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with the following prescribed distribution:

	Semester Hours
Chemistry (including 4 hours of organic chemistry)	12
Physics	6
Biology	6
English	6
Electives (exclusive of military, hygiene, and physical education)	30
Total	60

To establish eligibility to the degree of Bachelor of Science, a slightly modified distribution of entrance requirements is necessary.

For circular with detailed information address
THE DEAN, COLLEGE OF DENTISTRY, UNIVERSITY OF ILLINOIS
1838 WEST HARRISON STREET, CHICAGO, ILLINOIS

UNIVERSITY OF ILLINOIS

Colleges and Schools at Urbana

College of Liberal Arts and Sciences.—General curriculum with majors in the humanities and sciences; specialized curricula in chemistry and chemical engineering; general courses preparatory to the study of law and journalism; pre-professional training in medicine, dentistry, and pharmacy.

College of Commerce and Business Administration.—Curricula in general business, trade and civic secretarial service, banking and finance, insurance, accountancy, transportation, commercial teaching, foreign commerce, industrial administration, public utilities, and commerce and law.

College of Engineering.—Curricula in agricultural engineering, ceramics, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering physics, general engineering, mechanical engineering, metallurgical engineering, mining engineering, and railway engineering.

College of Agriculture.—Curricula in agriculture, floriculture, general home economics, and nutrition and dietetics.

College of Education.—Curricula in education, agricultural education, home economics education, and industrial education. The University High School is the practice school of the College of Education.

College of Fine and Applied Arts.—Curricula in architecture, landscape architecture, music, and painting.

College of Law.—Professional curriculum in law.

School of Journalism.—General and special curricula in journalism.

School of Physical Education.—Curricula in physical education for men and for women.

Library School.—Curriculum in library science.

Graduate School.—Advanced study and research.

University Extension Division.—For a list of correspondence courses conducted by members of the faculties of the colleges and schools at Urbana and equivalent to courses offered to resident students, address the Director of the Division of University Extension, 109 University Hall, Urbana, Illinois.

Colleges in Chicago

College of Medicine.—Professional curriculum in medicine.

College of Dentistry.—Professional curriculum in dentistry.

College of Pharmacy.—Professional curriculum in pharmacy.

University Experiment Stations, and Research and Service Bureaus at Urbana

Agricultural Experiment Station
Engineering Experiment Station
Extension Service in Agriculture and Home Economics
Bureau of Business Research
Bureau of Community Planning
Bureau of Educational Research
Bureau of Institutional Research

State Scientific Surveys and Other Divisions at Urbana

State Geological Survey
State Natural History Survey
State Water Survey
State Historical Survey
State Diagnostic Laboratory (Animal Pathology)
State Division of Plant Industry
U. S. Weather Bureau Station

For general catalog of the University, special circulars, and other information, address

The Registrar, University of Illinois
Urbana, Illinois

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1937/38

UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

Announcement for 1937-1938

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

UNIVERSITY OF ILLINOIS CIRCULAR
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June, July, and August, at Chicago, Illinois

VOL. XXIII JUNE, 1937 No. 2

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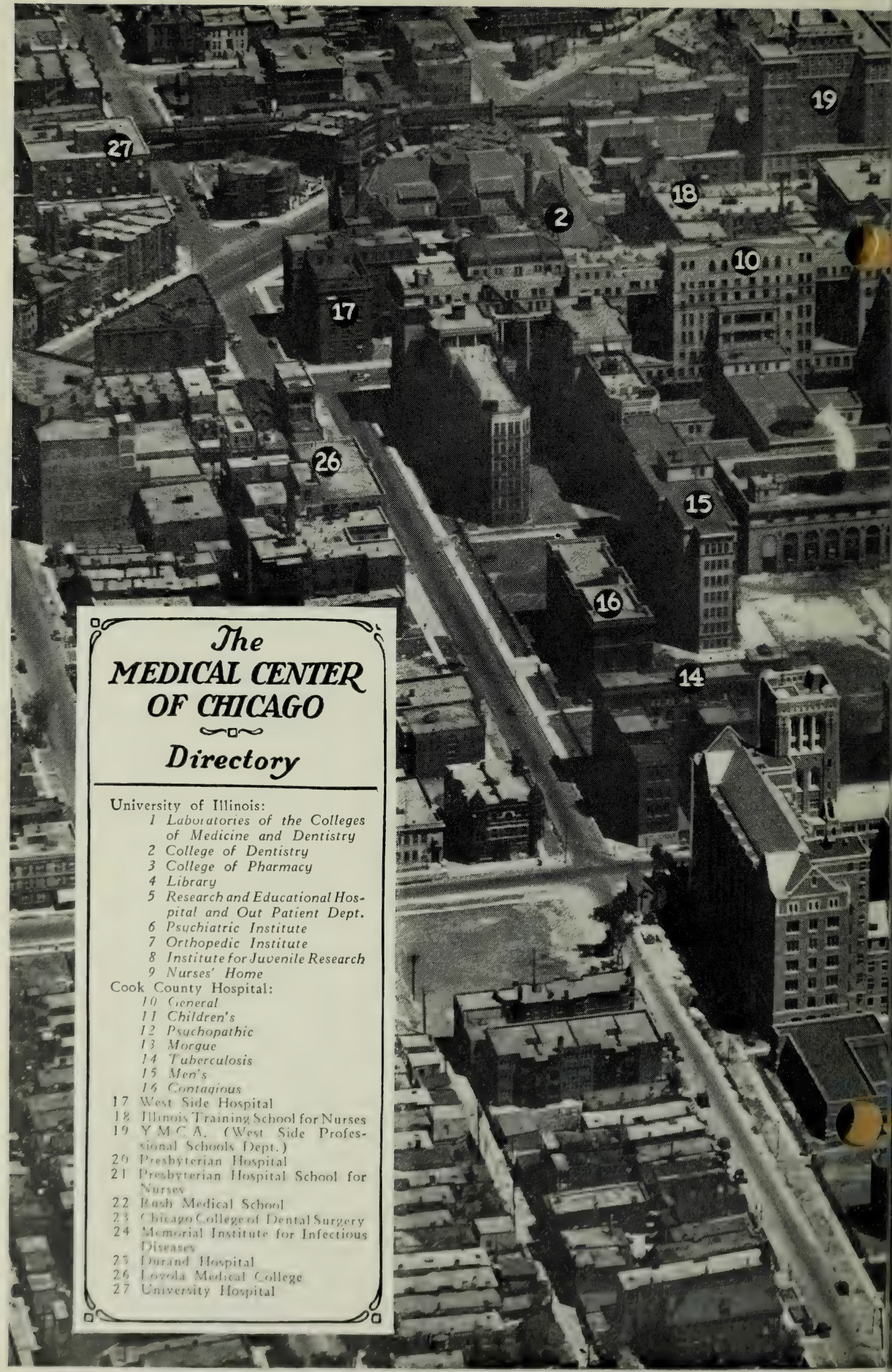


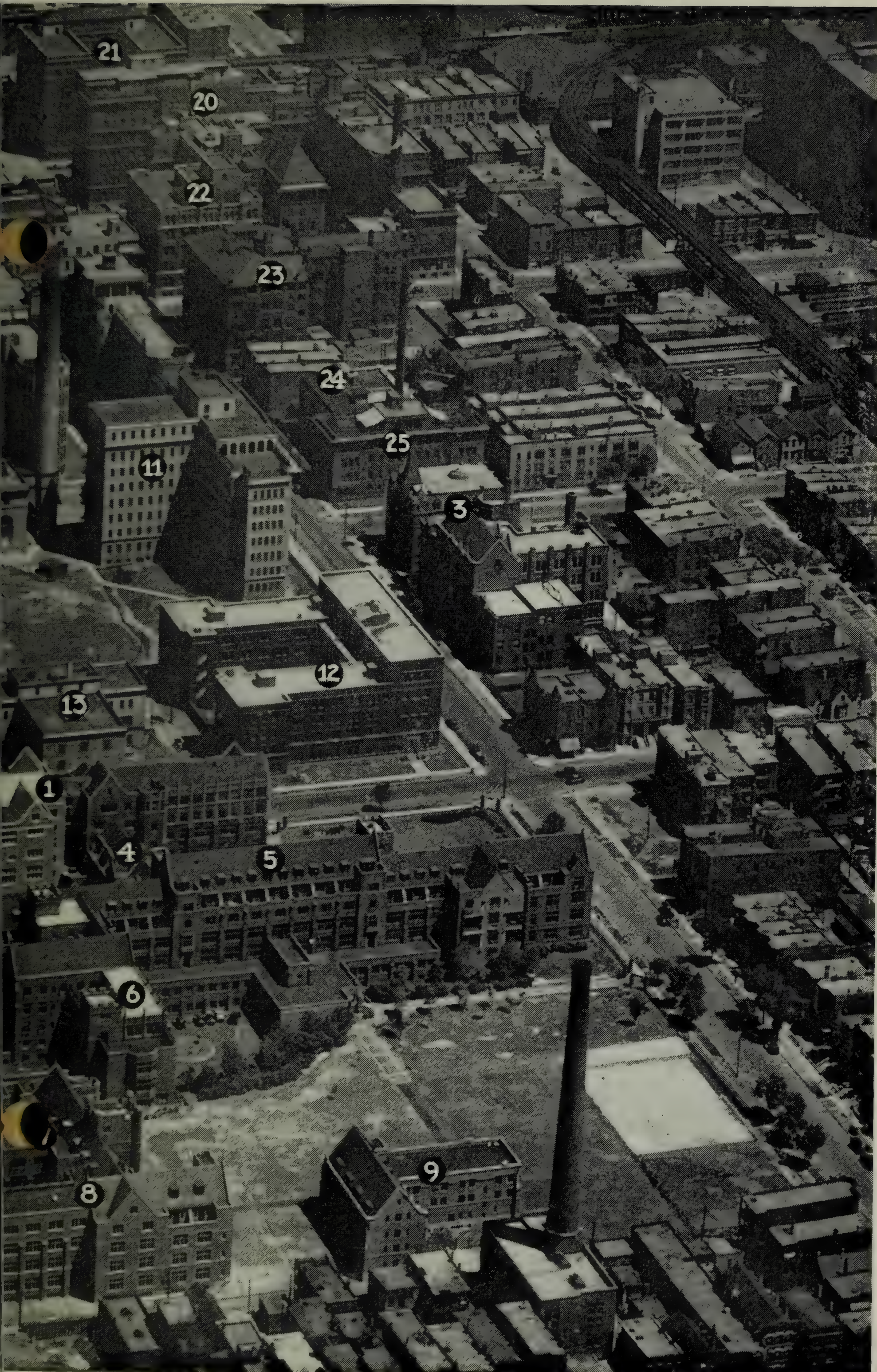
The MEDICAL CENTER OF CHICAGO

Directory

University of Illinois:
  1 *Laboratories of the Colleges of Medicine and Dentistry*
  2 *College of Dentistry*
  3 *College of Pharmacy*
  4 *Library*
  5 *Research and Educational Hospital and Out Patient Dept.*
  6 *Psychiatric Institute*
  7 *Orthopedic Institute*
  8 *Institute for Juvenile Research*
  9 *Nurses' Home*

Cook County Hospital:
  10 *General*
  11 *Children's*
  12 *Psychopathic*
  13 *Morgue*
  14 *Tuberculosis*
  15 *Men's*
  16 *Contagious*

17 West Side Hospital
18 Illinois Training School for Nurses
19 Y.M.C.A. (West Side Professional Schools Dept.)
20 Presbyterian Hospital
21 Presbyterian Hospital School for Nurses
22 Rush Medical School
23 Chicago College of Dental Surgery
24 Memorial Institute for Infectious Diseases
25 Durand Hospital
26 Loyola Medical College
27 University Hospital



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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

[Chicago College of Pharmacy 1859-1896]

Announcement for
1937-38

[Seventy-seventh Annual Announcement]

715 SOUTH WOOD STREET
CHICAGO, ILLINOIS
1937

2500—5-37—11870-S

UNIVERSITY
OF ILLINOIS
:: PRESS ::

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COLLEGE CALENDAR

First Semester

1937

Sept. 13-18, Monday-Saturday	Special examinations.
Sept. 27, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Sept. 28, Tuesday, 8 A.M.	Instruction begun.
Nov. 25, Thursday	Thanksgiving day.
Dec. 18, Saturday, 12 M.	Holiday recess begun.

1938

Jan. 3, Monday, 8 A.M.	Instruction resumed.
Jan. 31, Monday	Semester examinations begun.
Feb. 5, Saturday	Semester examinations ended.

Second Semester

Feb. 7, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Feb. 8, Tuesday, 8 A.M.	Instruction begun.
April 14, Thursday, 5 P.M.	Easter recess begun.
April 18, Monday, 8 A.M.	Instruction resumed.
May 26, Thursday	Final examinations begun.
May 30, Monday	Memorial day.
June 1, Wednesday	Final examinations ended.
June 9, Thursday	Class day and alumni meeting.
June 10, Friday	Commencement exercises.

UNIVERSITY OF ILLINOIS
BOARD OF TRUSTEES

MEMBERS EX OFFICIO

HENRY HORNER, *Governor of Illinois*	Springfield
JOHN A. WIELAND, *Superintendent of Public Instruction*	Springfield

ELECTED MEMBERS

(Term 1933-1939)

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ORVILLE M. KARRAKER	Harrisburg
DR. KARL A. MEYER	Cook County Hospital, Chicago

(Term 1935-1941)

OSCAR G. MAYER	1241 Sedgwick Street, Chicago
MRS. MARIE C. PLUMB	4816 Dorchester Avenue, Chicago
HAROLD A. POGUE	705 North Oakland Avenue, Decatur

(Term 1937-1943)

HOMER MAT ADAMS	509 Illinois Building, Springfield
JAMES M. CLEARY	310 South Michigan Avenue, Chicago
LOUIS C. MOSCHEL	P. O. Box 146, Pekin

Officers of the Board

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LLOYD MOREY, *Comptroller*	Urbana

Committee on the Chicago Departments

MRS. MARIE C. PLUMB (Chairman), DR. KARL A. MEYER, JAMES M. CLEARY

OFFICERS AND COMMITTEES

Administrative Officers

ARTHUR CUTTS WILLARD, B.S., D.Eng., LL.D., *President of the University*

WILLIAM BAKER DAY, Ph.G., Pharm.M., *Dean of the College of Pharmacy*

GEORGE PHILIP TUTTLE, B.S., *Registrar of the University,* Urbana

LLOYD MOREY, A.B., B.Mus., LL.D., C.P.A., *Comptroller of the University,* Urbana

GEORGE ROBERT MOON, A.M., *Examiner and Recorder for the Chicago Professional Schools*

JOHN EDSON MILLIZEN, A.B., *Business Agent for the Chicago Professional Schools*

MARY M. SCANLAN, *Secretary to the Dean of the College of Pharmacy*

University Committees for the Chicago Professional Schools

Health Service.—W. W. DALITSCH (Chairman), A. H. CLARK, R. L. LADD.

Library.—O. F. KAMPMEIER (Chairman), O. BERGEIM, B. FANTUS, F. K. HICK, R. G. KESEL, E. OLDBERG, W. F. PETERSEN, I. SCHOUR, P. L. SCHROEDER, E. GELLHORN, WILMA A. TROXEL.

Policy and Discipline.—D. J. DAVIS (Chairman), W. B. DAY, F. B. NOYES.

Advisory Board to the College of Pharmacy

J. F. SHREVE, Jacksonville
JOHN H. HARSCH, Peoria
LEO L. MRAZEK, Chicago
FRED W. RAUTH, Springfield
BYRON ARMSTRONG, Jacksonville

FACULTY OF THE COLLEGE OF PHARMACY

1936-37

Professors

William Baker Day, Ph.G., Pharm.M., *Dean of the College of Pharmacy and Professor of Materia Medica and Botany*
Clyde Mason Snow, Ph.G., A.M., *Professor of Pharmacy,* Emeritus
Albert Henry Clark, Ph.G., M.S., *Professor of Chemistry*
Edmund Norris Gathercoal, Ph.G., Pharm.M., *Professor of Pharmacognosy*

Associate Professors

Ralph Eugene Terry, Ph.G., M.S., *Associate Professor of Pharmacy*

Assistant Professors

Hugh Leslie Davis, Ph.D., *Assistant Professor of Chemistry*
Elmer Hauser Wirth, Ph.C., Ph.D., *Assistant Professor of Pharmacognosy*
Herbert Martin Emig, Ph.G., M.S., *Assistant Professor of Pharmacy in charge of Physiology*

Associates

George Lewis Webster, Ph.G., Ph.D., *Associate in Chemistry*
Charles Wildman Clarke, M.S., *Associate in Chemistry*
Sherman William Morrison, Ph.C., M.S., *Associate in Pharmacy and Pharmacist in the Drug Room*
Leonard Dana Powers, Ph.D., *Associate in Physics*
Lewis Elbert Martin, Ph.G., B.S., *Associate in Pharmacy*

Instructors

Samuel Shkolnik, Ph.G., LL.M., *Instructor in Pharmacy in charge of Business Law*
Paul David Carpenter, Ph.G., M.S., *Instructor in Materia Medica and Botany*
Esther Meyer, Ph.G., M.S., *Instructor in Bacteriology*
Cliveden Llwyd Cox, Ph.C., M.S., *Instructor in Pharmacognosy*
Urban Oscar Oakdale, Ph.G., Ph.D., *Instructor in Chemistry*
Joseph Charles Ocenasek, Ph.G., B.S., *Instructor in Pharmacy*
Lawrence Templeton, Ph.C., M.S., *Instructor in Pharmacy*

Assistants

Ernst Rudolf Kirch, Ph.C., M.S., *Assistant in Chemistry*
Paul Gotfried Soderdahl, Ph.C., M.S., *Assistant in Chemistry*
Raymond Sigfrid Adamson, Ph.C., *Assistant in Materia Medica and Botany*
Gerston Bruch, Ph.C., *Assistant in Materia Medica and Botany*
Bernard Benjamin Brody, Ph.C., *Assistant in Pharmacy*
Solomon Gershon, Ph.C., M.S., *Assistant in Chemistry*
William Robert Collins, Ph.C., *Assistant in Pharmacy and Assistant Pharmacist in the Drug Room*
Edward Ernest Vicher, B.S., *Assistant in Materia Medica and Botany*
Walter Allen Gher,[1] B.S., *Assistant in Chemistry*
Kenneth Lyle Howell, B.S., *Assistant in Pharmacy*
Elmer Guenther King, B.S., *Assistant in Pharmacy*
Ignatius Joseph Kaski,[2] B.S., *Assistant in Chemistry*

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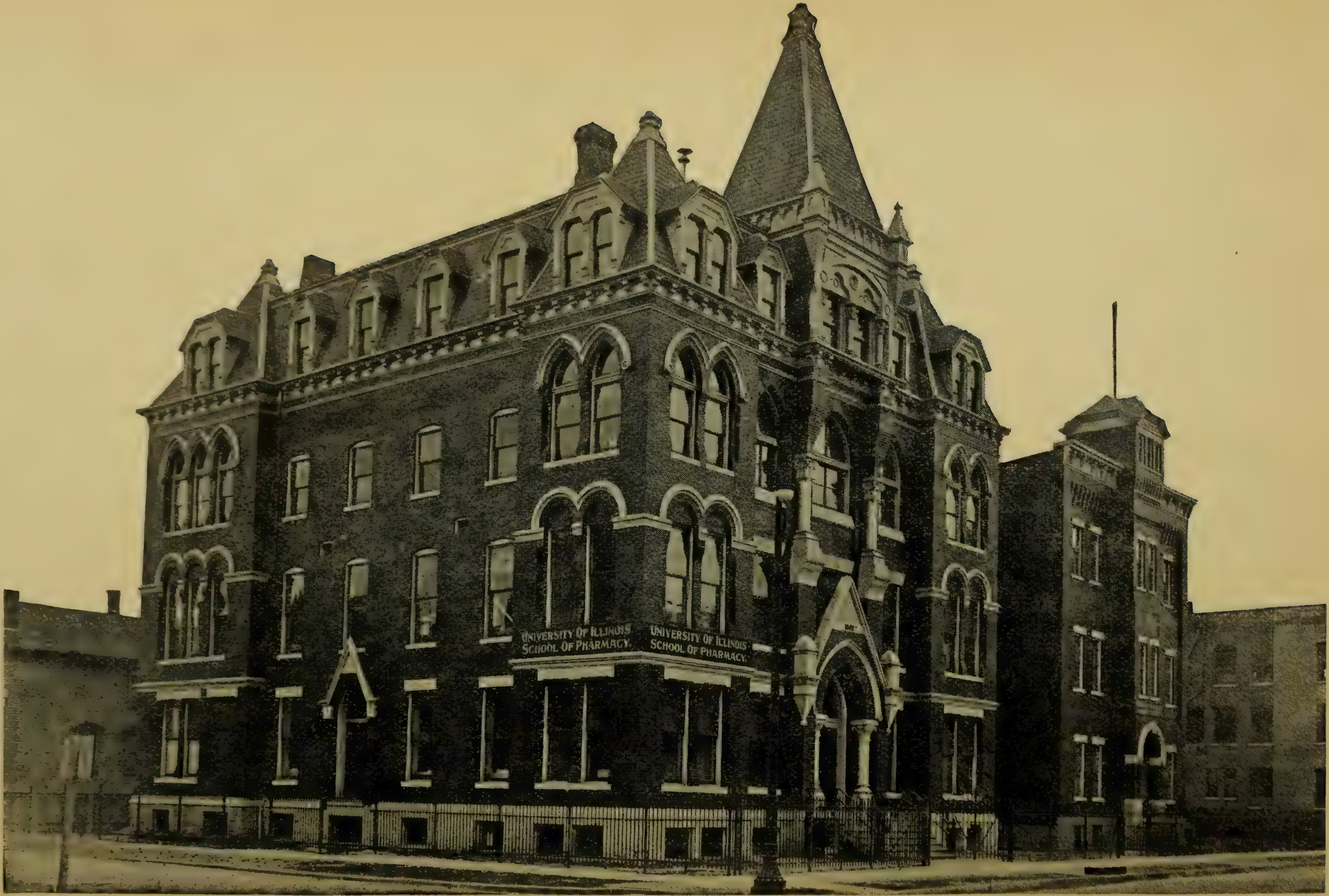
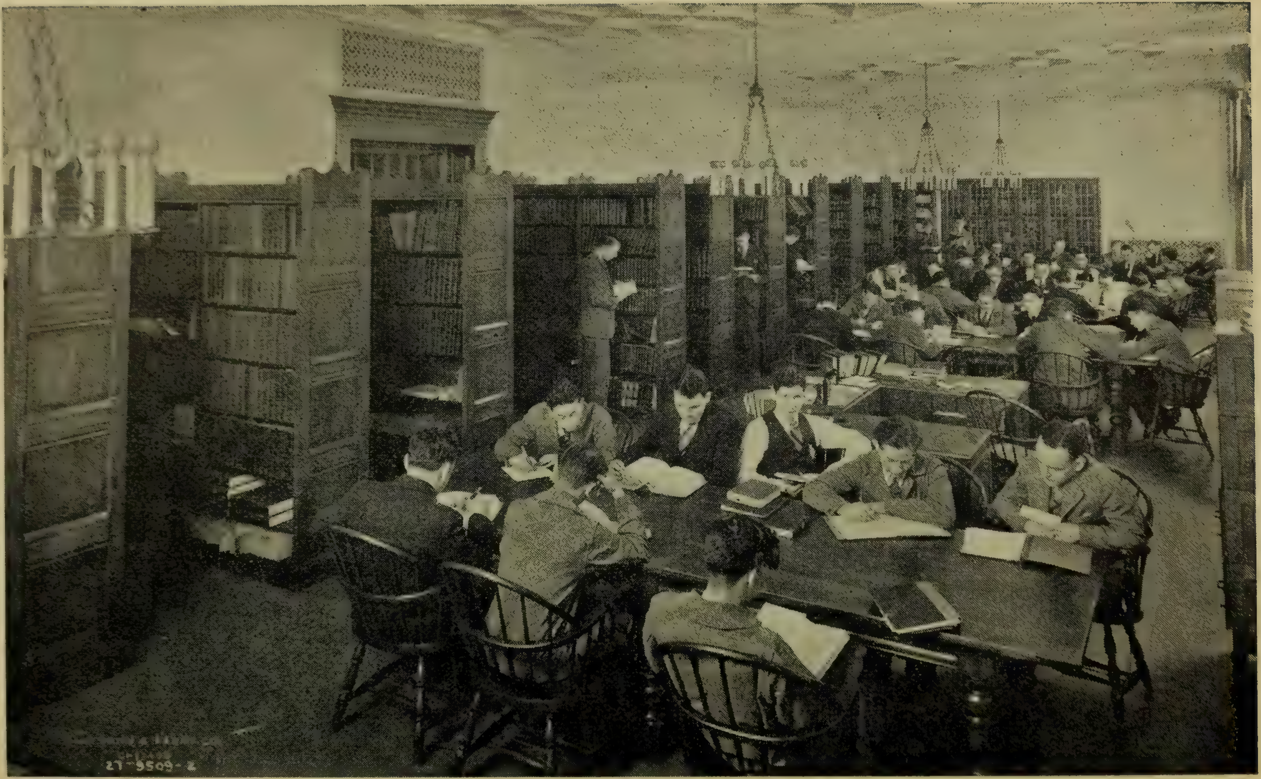
[1] Resignation effective March 1, 1937.

[2] Beginning March 1, 1937.


University of Illinois
School of Pharmacy.
University of Illinois
School of Pharmacy.

The North Buildings

THE NEW BUILDING AND THE SOUTH BUILDING



Library

THE COLLEGE OF PHARMACY

History

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry, and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the trustees and officers of the University have had the assistance of an advisory board of pharmacists nominated by the pharmacists of the state through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy Streets, comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

Location

The location of the College of Pharmacy is in the great clinical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of 280 feet on Wood Street and 124 on Flournoy Street.

Buildings and Equipment

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, a physics laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The new building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains two classrooms each seating 36 persons, offices, and students' rooms.

LECTURE ROOMS.—There are two lecture rooms seating respectively 150 and 120 persons and three smaller classrooms seating respectively 36, 36, and 72 persons.

LABORATORIES.—Eleven laboratories having a total capacity of 725 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air. In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. Machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

LIBRARY.—The Library contains over six thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files

of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

MUSEUM.—The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens. Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

STUDENTS' ROOMS.—Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

Requirements for Admission

Applicants for admission to the College of Pharmacy of the University of Illinois must present satisfactory evidence of five years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (algebra)	3

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected for admission, but such subjects may be offered for credit on the pharmacy curriculum. As desirable electives the following are recommended: accountancy, economics, history, trigonometry, and zoology.

A person whose record at some other institution comes within either of the following classifications may enter the University only on approval of the dean of the college concerned and under conditions imposed by him: (1) A person dropped from another institution for poor scholarship or for disciplinary reasons. (In the latter case he must also obtain approval of the University Senate Committee on Discipline.) (2) A person whose record shows as much as fifty per cent (or more than twenty-five hours) of unsatisfactory work, i.e., unremoved failures and credits earned with a grade equivalent to the lowest passing grade in the University of Illinois.

PREFERENCE TO ILLINOIS RESIDENTS.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

NON-ILLINOIS STUDENTS.—All applicants for admission, if not legal residents of Illinois, must present with their applications for admission, except as unclassified students, satisfactory evidence that they maintained at the college from which they would enter the University of Illinois, a scholastic average at least ten per cent above the passing grade of such college. In case of records which are not kept in numerical grades but in literal or other systems of grading, this requirement will be interpreted to mean an average of one grade above the passing grade; e.g., in a system of A, B, C, and D, with D as the passing grade, the average must be C.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

STATE QUALIFYING CERTIFICATE.—The Department of Education and Registration of the State of Illinois requires each student entering a recognized college of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the college, and blanks will be supplied by the college for the convenience of students in making this application.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The candidate for the degree of Bachelor of Science must meet the following requirements:

1. He must show evidence of good moral character.
2. He must have paid all indebtedness to the University.
3. He must have successfully completed the prescribed courses, of which at least the last year must have been at the University of Illinois.
4. He must have secured grades of not less than "C" in subjects aggregating at least three-fourths of the work taken in the College of Pharmacy and required for the degree.

Graduation With Honors

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the Commencement program.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Education and Registration, or register by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as an apprentice as early as possible.

Fees and Expenses

	Sophomore Year		*Junior Year*		*Senior Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition[2]	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[3]	23.00	29.00	36.00	27.00	35.00	31.00
Graduation fee	.....	.....	.....	.....	.....	10.00
Totals[4]	$83.00	$79.00	$86.00	$77.00	$85.00	$91.00

Additional Fees.—Duplicate diploma, $10.00. Original transcript of record, $1.00;[5] for each carbon copy of same, 50 cents.

Late Registration Fee.—A late registration fee of $5.00 will be charged to former students who do not present themselves for the payment of fees on the day designated in the college calendar.

Listener's Fees.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00 if residents of Illinois, or $20.00 if not residents of Illinois.

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[1] The matriculation fee is not required of students who have previously matriculated in any other college of the University of Illinois.

[2] The tuition fee of $50.00 each semester applies to students who are residents of Illinois. Those who are *not* residents of Illinois pay a tuition fee of $75.00 each semester. Students registered for ten hours or more in any one semester pay the full tuition fee ($50.00 if residents, $75.00 if not residents). Students registered for less than ten hours in any one semester pay $5.00 per credit hour if residents of Illinois, or $7.50 per credit hour if not residents of Illinois.

[3] The laboratory fee covers all drugs, chemicals, and other material used by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[4] These totals apply to students who are residents of Illinois. Others see note 2 above.

[5] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation fees.

CHANGE FEE.—For every change of study-list made later than the Monday noon following registration, a fee of $1.00 is charged, except that the total charge for the rearrangement authorized on any one change slip shall not exceed $2.00.

SERVICE CHARGE FOR DEFERRED FEES.—Under certain conditions, students may arrange for the payment of their fees in installments, in which case a service charge of ten per cent of the amount not paid on registration days is assessed, up to a maximum charge of $3.00 a semester.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The new ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

GENERAL ASSEMBLY SCHOLARSHIPS.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

STATE MILITARY SCHOLARSHIPS.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a college of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a college of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one college.

Ebert Loan Fund

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount of the fund is $2,112.62. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Prizes

Pharmacy Prize.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in pharmacy.

Chemistry Prize.—Mr. Herman Elich, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in chemistry.

Hodel-Saltiel-Hodel Prize.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

Pedigo Prize.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

American Pharmaceutical Association Membership.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumna of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in materia medica.

LAMBDA KAPPA SIGMA KEY. — Gamma Chapter of Lambda Kappa Sigma pharmaceutical sorority offers a prize, consisting of a key, to the member of the sorority who obtains the highest average in the entire course leading to the degree.

Organizations

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

Phi Chapter of Rho Chi, national honorary pharmaceutical society, organized to promote the advancement of the pharmaceutical sciences, is located at the College. Meetings for the discussion of the pharmaceutical sciences are held at stated times during the session. Elections to the society are held annually. Students who have completed 75 hours of scholastic work and have attained an average of at least 85 per cent or its equivalent are eligible for membership.

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership in the same must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

For further information or for an application blank, address

THE DEAN, COLLEGE OF PHARMACY
715 South Wood St., Chicago, Ill.

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of work in a recognized college or university and consists of not less than 30 semester hours as specified on page 13 of this circular.

The first year of this curriculum as offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana is as follows:

Freshman Year

First Semester	Hours	*Second Semester*	Hours
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-0	Electives[1]	5
Physical Education		Physical Education	
Hygiene		Military (for men)	
Military (for men)			
Total	15	Total	15

MATERIA MEDICA AND BOTANY

Professor Day, Professor Gathercoal, Assistant Professor Wirth, Assistant Professor Emig (Cooperating), Mr. Carpenter, Miss Meyer, Mr. Cox, Mr. Adamson, Mr. Bruch, Mr. Vicher

Sophomore Year

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.
Professor Day, Professor Gathercoal, Mr. Carpenter

22. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.
Professor Gathercoal, Mr. Carpenter

Junior Year

31. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, including their titles, synonyms, definitions, collection, preservation, identification, standardization, therapeutic use, and dose. The vegetable drugs are classified according to botanical source and the animal drugs according to zoological source. The laboratory work includes a study of the crude drugs in whole and powdered form, leading to their recognition and the determination of their quality and purity by organoleptic, microscopic, and micro-chemical means. Two

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. The following are not accepted as electives, because they are included in the curriculum of the College of Pharmacy: Botany, Physiology, Physics, Bacteriology, and additional courses in Chemistry.

lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. *Prerequisite:* Plant Histology course 22. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

32. *Pharmacognosy.*—A continuation of Course 31. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester. Assistant Professor WIRTH, Mr. COX, Mr. BRUCH

34. *Physiology.*—A course in which the important features concerning the anatomy, physiology, and hygiene of the various systems of the human body are studied. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Assistant Professor EMIG

Senior Year

41. *Bacteriology.*—Characteristics of bacteria, yeasts, and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants, and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. VICHER

42. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester. Professor DAY, Assistant Professor WIRTH, Miss MEYER

44. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, based upon their important constituents. The laboratory work includes the micro-isolation of the constituents from drug material and the identification of these constituents by microscopical and micro-chemical means. The groups studied include carbohydrates, mucilages and gums, glucosides, alkaloids, fixed oils, volatile oils, oleoresins, resins, balsams, tannins, phloroglucinol derivatives, enzymes, hormones, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First or second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Assistant Professor WIRTH, Mr. ADAMSON

46. *Microscopy of Foods.*—Optional. Should be elected simultaneously with Chemistry course 44. May be elected in lieu of Pharmacognosy course 44 only by special permission of the head of the department. A microscopical study of foods including cereals and cereal products, spices and condiments, oil seeds and oil cakes, legumes, nuts, fruit and fruit products, vegetables, tea, coffee, cocoa, etc., including their identification and the determination of their quality and purity by microscopical means. Special reference will be made to legal standards governing these foods. Food products purchased in the open market will be brought to the laboratory for examination. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Assistant Professor WIRTH, Mr. ADAMSON

CHEMISTRY

Professor CLARK, Assistant Professor DAVIS, Dr. WEBSTER, Mr. CLARKE, Dr. POWERS, Dr. OAKDALE, Mr. KIRCH, Mr. SODERDAHL, Mr. GERSHON, Mr. GHER, Mr. KASKI[1]

Sophomore Year

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. (Required of all students.) Two one-hour class periods and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. Mr. CLARKE, Mr. GERSHON, Mr. GHER

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four one-hour class periods and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.
Assistant Professor DAVIS, Mr. KIRCH, Mr. GHER

24. *General Physics.*—A general discussion of the fundamental principles of mechanics, heat, and sound. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) Second semester. Dr. POWERS, Mr. SODERDAHL

Junior Year

31. *Organic Chemistry.*—This course is a continuation of Chemistry 22 but is devoted almost entirely to the aromatic compounds. As in Chemistry 22, pharmaceutical applications are emphasized in both the theoretical and the laboratory work. The composition of volatile oils and the nature of their most important constituents are fully discussed. Alkaloids and related substances are extensively studied as to their constitution and its relationship to chemical and physiological action. The laboratory work is devoted to the preparation of typical substances, examination of U.S.P. products, analysis of drugs, etc. Three lectures or recitations and one four-hour laboratory period each week. (4 semester hours, 7 clock hours.) First semester.
Assistant Professor DAVIS, Mr. KIRCH, Mr. GHER

32. *Quantitative Analysis.*—The theories and technique of gravimetric and volumetric analysis are taught in this course. Whenever possible the methods of the U.S.P. are used to illustrate their application and pharmaceutical or medicinal products are used as material for practical examination. Three lectures or recitations and two three-hour laboratory periods each week. (5 semester hours, 9 clock hours.) Second semester.
Mr. CLARKE, Mr. GERSHON, Mr. GHER

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[1] Beginning March 1, 1937.

33. *General Physics.*—A continuation of the discussion of the principles of physics as related to the phenomena of electricity, magnetism, and light. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) First semester. Dr. Powers, Mr. Soderdahl

Senior Year

41. *Drug Assaying.*—A study of the principles and methods of drug standardization applied to substances included in the U.S.P. The course includes the preparation and standardization of volumetric solutions; assays of alkaloid bearing drugs, resinous drugs, essential oils, aldehydes, phenol, and nitrites; the determination of halogen in organic compounds, alcohol in pharmaceutical preparations, acid, saponification, and iodine value of fats, congealing point, refractive index, specific rotation, and kinematic viscosity. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Professor Clark, Dr. Webster, Dr. Oakdale, Mr. Gher

42. *Advanced Drug Assaying.*—A continuation of the study of drug standardization methods as applied to commercial mixtures of medicinal chemicals, proprietary medicines, insecticides, pills, tablets, and enzymes. The quantitative methods of urine and blood analysis will be studied. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. Dr. Webster, Dr. Oakdale, Mr. Gher

43. *Chemistry of Synthetic Drugs and Proprietary Medicines.*—In this course an attempt is made to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in Chemistry 22 and 31. The relationship between their chemical constitution and physiological action is constantly discussed. Two lectures or recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor Clark

44. *Food Analysis.*—Optional. May be elected in place of Chemistry course 42 with permission of the head of the chemistry department. Offered to classes of six or more students. A study of the principles and methods of food analysis. Samples of food products will be purchased and subjected to physical and chemical examination for the detection of preservatives, added coloring, metallic poisons, and foreign substances. The chemical and physical constants of common food substances will be determined and compared with the state and federal requirements for these substances. Bottled beverages, canned vegetables, flavoring extracts, milk, butter, salad oils, table syrups, ice cream, baking powder, candy, and other food products will be examined. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. Dr. Webster, Dr. Oakdale, Mr. Gher

46. *Synthesis of Drugs.*—Optional. May be elected in place of Chemistry course 42 by permission of the head of the chemistry department. Offered to classes of six or more students. A continuation of the study of organic chemistry and the application of the type reactions to the manufacture of organic medicinal chemicals and their intermediates. Barbital, cinchophen, acetphenetidine, phenolphthalein, tryparsamide, hexylresorcinol, guaiacol, methylene blue, or others may be selected in consultation with the instructor. Reference to the original work on the substance elected is encouraged. One lecture or recitation

and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester. Dr. WEBSTER, Dr. OAKDALE, Mr. GHER

PHARMACY

Associate Professor TERRY, Assistant Professor EMIG, Mr. MORRISON,
Mr. MARTIN, Mr. SHKOLNIK, Mr. OCENASEK, Mr. TEMPLETON,
Mr. BRODY, Mr. COLLINS, Mr. HOWELL, Mr. KING

Sophomore Year

21. *Introductory Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, etc. Outline of Galenical Pharmacy and study of simpler preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester. Associate Professor TERRY, Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

22. *Galenical Pharmacy and Inorganic Pharmacy.*—Continuation of discussion of Preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, and salts, pharmaceutical and technical uses, posology, and therapeutic classifications. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Associate Professor TERRY, Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

23. *Introductory Pharmacy Laboratory.*—Work covering metrology, specific gravity, heat, pharmaceutical technique followed by the preparation of the simple galenicals such as waters and solutions. One recitation or lecture and one three-hour laboratory period each week. (2 semester hours, 4 clock hours.) First semester. Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

24. *Introductory Operative Pharmacy.*—Manufacture of the preparations of the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one three-hour laboratory period each week. (2 semester hours, 4 clock hours.) Second semester. Mr. SHKOLNIK, Mr. BRODY, Mr. HOWELL

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

Junior Year

31. *Galenical Pharmacy.*—A study of the preparations made by extractive processes including tinctures, fluid-extracts, extracts, etc., with a study of

posology and therapeutic application. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.
Associate Professor TERRY, Mr. MARTIN, Mr. OCENASEK

32. *Galenical Pharmacy.*—Covering the solid internal and external preparations and such of the unofficial articles as are in common use. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.
Associate Professor TERRY, Mr. MARTIN, Mr. OCENASEK

33a. *Operative Pharmacy.*—Laboratory work involving the preparations of the more complex solutions, mixtures, syrups and elixirs and the simpler extractive preparations. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester.
Mr. MARTIN, Mr. OCENASEK

34a. *Advanced Operative Pharmacy.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

Senior Year

41. *Organic Pharmacy.*—Official and unofficial drugs and compounds used in modern therapy studied from the standpoint of their source, characters, physical and chemical properties, doses and therapeutic applications. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) First semester. *Prerequisite:* All sophomore and junior pharmacy courses, including arithmetic.
Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

42. *Organic Pharmacy.*—Continuation of course 41 including animal drugs and vitamins, medicinal foods, etc., of both official and unofficial character. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) Second semester.
Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

43a. *Dispensing Laboratory.*—Introductory course in dispensing covering the types of preparations for extemporaneous compounding. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First semester. Assistant Professor EMIG, Mr. TEMPLETON

44. *Advanced Dispensing Laboratory Practice.*—Compounding technics for the dispensing of complex prescription formulas. The manufacture of difficult extemporaneous preparations and the study of incompatible prescriptions with compounding practice. Pills, suppositories, cachets, tablet triturates, etc. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester. Assistant Professor EMIG, Mr. TEMPLETON

45. *Seminar in Library Practice.*—A study of pharmaceutical literature, scientific and commercial. Library arrangement and practice. Preparation of a series of reports covering selected topics. One recitation each week. (1 semester hour, 1 clock hour.) First semester. Associate Professor TERRY

46. *Seminar in Commercial Pharmacy.*—A discussion of commercial pharmaceutical practices. One recitation each week. (1 semester hour, 1 clock hour.) Second semester.
Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

48. *Business Law.*—A presentation of the fundamentals of commercial laws with special reference to their application to the retail drug business; principles of contracts, leases, agency, corporations, partnerships, bills and notes, chattel mortgages, conditional sale agreements, consignments, sales, bulk sales, and insurance. A discussion of federal, state, and local laws pertaining to the practice of the profession of pharmacy and to the conduct of a retail drug store; pure food and drug laws and regulations; poison, narcotic, and liquor laws and regulations; pharmacy ownership laws; common law and statutory rights, privileges, duties, and liabilities of registered pharmacists, assistant pharmacists, pharmacy apprentices, employers, and employees; and matters of reciprocity. Trade marks, copyrights, and patents relating to pharmaceutical preparations, apparatus, and processes. One hour lecture each week. (1 semester hour, 1 clock hour.) Second semester. Mr. SHKOLNIK

50. *Hospital Practice.*—Affiliated with the College is the Research and Educational Hospital where each candidate for the degree must work not less than 50 clock hours. This requirement may be met during the junior and senior years. The candidate prepares pharmaceutical preparations and compounds prescriptions from the physicians of the clinics and hospital. (1 semester hour.)
Mr. MORRISON, Mr. COLLINS

SUMMARY OF CURRICULUM LEADING TO B.S. DEGREE

Freshman Year

Thirty semester hours in an accredited college of liberal arts, including the specific requirements listed on page 13 of this circular.

Sophomore Year

First Semester

	Clock hours each week		Total clock hours	Total semester hours
	Didac.	Lab.		
Pharm. 21.—Introductory Pharmacy	3	..	3	3
Pharm. 23.—Introductory Pharmacy Laboratory	1	3	4	2
Pharm. 25.—Arithmetic	3	..	3	3
Chem. 21.—Qualitative Analysis	2	6	8	4
Mat. Med. & Bot. 21.—General Botany	3	3	6	4
Total for semester	12	12	24	16

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 22.—Galenical Pharmacy	3	..	3	3
Pharm. 24.—Introductory Operative Pharmacy	1	3	4	2
Chem. 22.—Organic Chemistry	4	4	8	5
Chem. 24.—General Physics	3	3	6	4
Mat. Med. & Bot. 22.—Plant Histology	2	6	8	4
Total for semester	13	16	29	18

Junior Year

First Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 31.—Galenical Pharmacy	3	..	3	3
Pharm. 33a.—Operative Pharmacy	1	6	7	3
Chem. 31.—Organic Chemistry	3	4	7	4
Chem. 33.—General Physics	3	3	6	4
Mat. Med. & Bot. 31.—Pharmacognosy	2	6	8	4
Total for semester	12	19	31	18

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 32.—Galenical Pharmacy	3	..	3	3
Pharm. 34a.—Advanced Operative Pharmacy	1	6	7	3
Chem. 32.—Quantitative Analysis	3	6	9	5
Mat. Med. & Bot. 32.—Pharmacognosy	2	6	8	4
Mat. Med. & Bot. 34.—Physiology	3	..	3	3
Total for semester	12	18	30	18

Senior Year

First Semester

	Clock hours each week Didac.	 Lab.	Total clock hours	Total semester hours
Pharm. 41.—Organic Pharmacy	3	..	3	3
Pharm. 43a.—Dispensing Laboratory	..	6	6	2
Pharm. 45.—Seminar	1	..	1	1
Chem. 41.—Drug Assaying	1	8	9	3
Chem. 43.—General Organic Chemistry	2	..	2	2
Mat. Med. & Bot. 41.—Bacteriology[1]	3	9	12	6
Total for semester	10	23	33	17

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 42.—Organic Pharmacy	3	..	3	3
Pharm. 44.—Dispensing	..	6	6	2
Pharm. 46.—Seminar	1	..	1	1
Pharm. 48.—Business Law	1	..	1	1
Pharm. 50.—Hospital Practice	..	..*	..*	1
Chem. 42.—Drug Assaying	1	8	9	3
Chem. 44.—Food Analysis[2]	(1)	(8)	(9)	(3)
Chem. 46.—Synthesis of Drugs[2]	(1)	(8)	(9)	(3)
Mat. Med. & Bot. 42.—Materia Medica	3	..	3	3
Mat. Med. & Bot. 44.—Pharmacognosy[1]	1	6	7	3
Mat. Med. & Bot. 46.—Microscopy of Foods[3]	(1)	(6)	(7)	(3)
Total for semester	10	20	30	17

Note: The minimum number of semester hours required for the B.S. degree is 134.

---

*A minimum of 50 clock hours in the hospital pharmacy department.

[1] May be taken either semester.

[2] Chem. 44 or 46 may be elected instead of Chem. 42.

[3] Mat. Med. & Bot. 46 may be elected instead of Mat. Med. & Bot. 44.

DEGREES CONFERRED, 1936

Degree of Pharmaceutical Chemist

(Conferred in February, 1936)

Alfred Catelani
Edward Thomas Grams

(Conferred in June, 1936)

Bela Horvath
Bernard Henry Ksycki
Peter Daniel Maggio
Richard Kenneth Magid
Chester Louis Prybylo
Anthony Daniel Ravegnani
Joseph Rutgard
Sol Charles Sherman
Edward Frank Vlack

Degree of Bachelor of Science in Pharmacy

(Conferred in February, 1936)

Sister Hiltrudis Chlebik
Sister Evarista Higgins

(Conferred in June, 1936)

Robert William Elich, B.S.
Abraham Endler
Leland Everett Fetzer
Raymond Fisher
Raymond Joseph Fridrich
Walter Allen Gher
William A. Hoff
Nathan Horowitz
Marshall Hotz
Kenneth Lyle Howell
Dorothy Helen Hubler
Edward John Jaruszewski, with High Honors
Ignatius Joseph Kaski
Edward Ernst King
Elmer Guenther King, with High Honors
Constantine George Kolomatsky, with High Honors
Francis Xavier Lescher
Jerome Martin Mitacek
Michael Richard Mizen
Carl George Mozenter
Edward Casimir Rogowski
Karl Blei Rosen
Sam Ruttenberg
J. Leonard Schallman
Arthur Albert Schauer
Jacob Shapiro
Walter Joseph Sharka, Jr., with Honors
Herman Silver
Sister Mary Ethelberta Krebs
Samuel Sonshine, with Honors
Robert Geymer Steveley
Sidney Asher Taylor
Ethel Louise Tuscher
Adam Everett Volkenant

PRIZES, 1936

Samuel L. Antonow Prize in Pharmacy	Dorothy Helen Hubler
Herman Elich Prize in Chemistry	Edward John Jaruszewski
William Gray Prize in Pharmacy	Robert William Elich
Hodel-Saltiel-Hodel Prize in Pharmacy	Constantine George Kolomatsky
Andrew Sherer Prize in Pharmacy	Elmer Guenther King
Lee M. Pedigo Prize in Materia Medica	Samuel Sonshine
Alice E. Pelikan Prize in Material Medica	Walter Joseph Sharka, Jr.
Rho Chi Membership Award in Pharmacy	Frank Thomas Maher

REGISTER OF STUDENTS, 1936-37

Candidates for the Degree of Bachelor of Science in Pharmacy

Sophomores

Athas, Louis P.—Salt Lake City, Utah
Augustyniak, John Julian—Chicago
Benda, Joseph—Berwyn
Bluestein, Max M.—Chicago
Brin, Nathan Harold—Chicago
Bromberg, Rudolph—Chicago
Brussell, Harriet Josephine—Chicago
Budick, Anthony Joseph—Chicago
Celer, Joseph Frank—Brookfield
Cermak, John Joseph, Jr.—Chicago
Chapman, Ednamae—Auburn, Indiana
Chester, Jack—Chicago
Cienciwa, Boleslaus T.—Chicago
Cohen, Martin Henry—Chicago
Cross, Richard Luther—Ottawa
Cutler, Isadore Edwin—Chicago
Dabovich, Thomas Chris—Chicago
D'Aquila, Daniel Joseph—Oak Park
DeStefano, Joseph Anthony—Chicago
Drell, Norman—Chicago
Dvorak, George John—Chicago
Eisele, Henry P.—Chicago
Favinski, Frank John—Chicago
Finkelman, Sol J.—Chicago
Fisher, Mylon O.—Brookfield
Galloway, Kenneth Buel—Carthage
Gerchenson, Emile H.—Chicago
Gerchenson, Lester—Chicago
Gershman, Sam—Chicago
Gillotte, Aldo Edward—Chicago
Goldstein, Harry Earl—Chicago
Griffith, Walter Lawrence—Chicago
Heimsath, Albert Peter—Aurora
Herman, Ben—Chicago
Homann, Sibyl Virginia—Moccasin
Hurkmans, Frank—Chicago
Jacobson, Kenneth A.—Elmhurst
Kalachnik, John—Chicago
Karpel, William Jack—Chicago
Katz, Ben Jack—Chicago
Kaucky, Emanuel Joseph—Berwyn
Keefer, Albert Mathew—Chicago
Keefer, Jacob Thomas—Chicago
Kraemer, Frank William Joseph, Jr.—Oak Park
Kravets, Irving—Chicago
Laczny, Raymond Conrad—Joliet
Lander, Norman Meyer—Chicago
Lerman, Phil—Chicago
Levensbaum, Louis—Chicago
Liesch, LeRoy William—Chicago
Lizzadro, Antoinette—Chicago
Lund, John George—Chicago
Maniates, Louis George—Chicago
Manning, John Francis—Chicago
Mladinov, Francis Anthony—Chicago
Modzelewski, Bruno Robert—Chicago
Mrazek, Charles Joseph—Chicago
Nudd, Hubert Joseph—Chicago
Para, Joseph Bernard—Chicago
Patka, Virginia Rita—Chicago
Payne, Thomas Michael—Chicago
Perlman, Kalman Isadore—Chicago
Potenza, Lawrence—Chicago
Ramsay, Gordon Dale—Metropolis
Riedl, Joseph Ernest—Chicago
Ries, Warren Alan—Aurora
Rizzo, Joseph—Chicago
Rook, Lawrence Edward—Berwyn
Rosen, Philip D.—Chicago
Roth, Sidney Aaron—Chicago
Rutili, Tullio Richard—Chicago
Sacauskis, Michael Anton—Chicago
Silberman, Isadore—Chicago
Silverman, Irving—Chicago
Sister Mary Grace Kujawa, Ph.B.—Chicago
Sister Mary Tarcisia Bucka—Chicago
Smaler, Ben Isadore—Chicago
Sokolov, Joseph Louis—Chicago
Sorokin, George—Chicago
Spivak, Morey James—Chicago
Springer, Morton—Chicago
Stevens, Daniel Ollie—Chicago
Tenner, Sam—Chicago
Tesauro, Marie Anne, B.S.—Chicago
Travers, Kenneth Sylvester—Chicago
Venetucci, Adelaide E.—Chicago
Weber, Carl William—Hoopeston
Weinstein, Melvin—Chicago
Ziegler, Carl Louis—Forest Park
Zugich, John Joseph—DePue

Juniors

Alix, Max John—Chicago
Allen, Herbert Rexford—Chicago
Becker, Henry—Chicago
Begun, Martin—Chicago
Berger, Edward—Chicago
Bitautas, Walter A.—Kenosha, Wisconsin
Boffa, John Angelo—Chicago
Brown, Harry G.—Chicago
Connors, Harry James—Chicago
Crain, Jared Walter—Broadlands
Damer, Edward John—Berwyn
Eberly, Ralph M.—Aurora
Evangelista, Sam Joseph—Chicago
Featherston, Lauren Richard—Kingsley, Iowa
Feldstein, Abe—Chicago
Finkel, Dave—Ocean Park, California
Fosen, Lloyd—Joliet
Frank, Ben—Chicago
Fried, Edward Theodore—Chicago
Frosh, Alvin Joseph—Chicago
Ginsburg, Herbert R.—Chicago
Gurskis, Joseph E.—Chicago
Hamilton, David Orland, B.S.—Monmouth
Hart, Marshall Vaughn—Ullin
Hendricks, John Wilcox—Sterling
Jakopich, Charles—Chicago
Jancauskas, Joseph Benedict—Cicero
Jung, Eugene Joseph—Chicago
Kanapackis, Stephany Lucille—Chicago
Kaplan, Benjamin J.—Chicago
Katz, Herman—Chicago
Klotz, Julius Carl—Chicago
Kopec, Walter Andrew—Chicago
Kopecky, Frank Henry—Berwyn
Koval, Alphonse Joseph—Chicago
Krugly, Bernard—Chicago
Krupsky, Abe Morris—Chicago
Leininger, Eleanor Lee—Chicago
Lindblade, Victor—Chicago
Maranda, John Marian—Chicago
Mather, Elton—Chicago
Mazonas, Joseph John—Chicago

Mosoff, Simon—Chicago
Newland, Henry—Chicago
Niedly, Adeline—Chicago Heights
Piotrowski, Walter Joseph—Chicago
Pleshar, Adalbert Joseph—Chicago
Pruszynski, Martha Helen—Chicago
Romanski, Henry Joseph—Berwyn
Rose, Marshall A.—Chicago
Ryba, Milton—Berwyn
Sagona, Frank Micheal—Rockford
Schiff, Alfred Daniel—Chicago
Schlachet, Daniel Byron—Chicago
Sellers, James B.—Chicago
Shipkin, Hyman—Chicago
Sister Mary Carl Marty—Springfield
Skembare, George—Chicago
Sloan, Udi Joseph—Chicago
Sparks, Ralph Dale—Lincoln
Stoeffhaas, Martin Robert—Chicago
Suss, Henry—Chicago
Threlkeld, Victor Lennes—Mt. Vernon
Vaisvil, Isabella Antoinette—Cicero
Veaco, Sidney—Belvidere
Warhanik, Vernon Francis—Chicago
Warsaw, Philip—Chicago
Webb, Woodrow Wilson—Maywood
Weiss, Alvin—Chicago
Widen, Frank—Chicago
Wrobel, Thaddeus—Chicago
Yablonsky, Isadore Jack—Chicago
Yallof, Charles—Chicago
Zeitlin, Sidney H.—Chicago

Seniors

Anderson, Clifford Willard—Peoria
Becker, Charles Henry—Chicago
Boffa, Philip Joseph—Chicago
Broccolo, Theresa Marie—Cicero
Brown, Edward Wilder—Walworth, Wisconsin
Burhop, George William, B.S.—Chicago
Cevela, Franklin Charles, B.S.—West Chicago
Cohn, Carl Albert—Chicago
Dargis, Marcella Leone—Chicago
Denton, Clarence Earl—Beardstown
Elam, John Wesley, B.S.—Vaughan, Mississippi
Fitzgerald, Robert Frank—Morrison
Flower, Harry—Chicago
Foote, Coleman H.—Earlville
Frank, Julius—Chicago
Fredson, Samuel Joseph—Chicago
Gasen, Robert Coultas—Winchester
Goldberg, Sophie—Chicago
Golembo, Julius E.—Chicago
Jacobson, Jeannette Sylvia—Chicago
Kalom, Seymour Sanford—Chicago
Klemme, Leonard Carl—Hubbard, Iowa
Krupinski, Helen Marcia—East Chicago, Indiana
Lacey, Wilson T.—Grand Ridge
Leonard, Forrest Virgil—Chicago
Leone, Charles Joseph—Chicago
Lewis, Samuel—Chicago
Madison, Ruth—Chicago
Maher, Frank Thomas—Beardstown
Marder, Herbert Bernard—Chicago
Martz, Florence Louise—Chicago
McEncroe, John Robert—Chicago
McKee, Maxine Ruth—Chicago
Meyerovitz, Julius Alfred—Chicago
Meyrowitz, Bernard—Chicago
Muetze, Fred Theodore—Chicago
Muley, Joseph A.—Chicago
Naktin, Paul—Chicago
Osmolak, Edward Joseph—Cicero
Parks, Frank Ernest—Marion
Pickman, Nathan—Chicago
Potkin, Nathan—Chicago
Prizant, Milton S.—Chicago
Przepiorski, John Bruno—Chicago
Rabinowitz, Irving J.—Chicago
Raispis, Marie Emily—Chicago
Rimkus, Joseph—Chicago
Rosenbloom, Bernard Charles—Chicago
Rudzinski, Leonard Joseph—Chicago
Samuels, John P.—Chicago
Scaletta, Josephine Bernadette—Chicago
Schwartz, Martin—Chicago
Scotellaro, John—Chicago
Seamans, Bernard Irving—Chicago
Stobart, Kenneth M.—Harrisburg
Streit, Rita Irene—Chicago
Strout, Charles William—LaSalle
Svoboda, George Emil—Berwyn
Sypniewski, Arthur—Chicago
Taylor, James Willard—Gillespie
Uretzky, Rubin—Chicago
Warzynski, Raymond Joseph—Chicago
Weiss, Benjamin Maurice—Chicago
Witt, Irving Robert—Chicago
Zack, Stephanie Infantia—Chicago

THE UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE
(College of Physicians and Surgeons of Chicago 1881-1900)

Offers a five-year course (including one year of interne service in an approved hospital) leading to the degree of Doctor of Medicine. The degree of Bachelor of Science is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with an average of not less than 3.5 (about 83%) in all collegiate work. Beginning in September, 1937, preference will be given to applicants who have had three years of college work as prescribed by new requirements then going into effect.

For circular with detailed information address
The Dean, College of Medicine, University of Illinois
1853 West Polk Street, Chicago, Illinois

THE UNIVERSITY OF ILLINOIS
COLLEGE OF DENTISTRY

Offers a four-year course of instruction leading to the degree of Doctor of Dental Surgery. The degree of Bachelor of Science in Dentistry is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with the following prescribed distribution:

	Semester Hours
Chemistry (including 4 hours of organic chemistry)	12
Physics	6
Biology	6
English	6
Electives (exclusive of military, hygiene, and physical education)	30
Total	60

To establish eligibility to the degree of Bachelor of Science, a slightly modified distribution of entrance requirements is necessary.

For circular with detailed information address
The Dean, College of Dentistry, University of Illinois
1838 West Harrison Street, Chicago, Illinois

UNIVERSITY OF ILLINOIS

Colleges and Schools at Urbana

College of Liberal Arts and Sciences.—General curriculum with majors in the humanities and sciences; specialized curricula in chemistry and chemical engineering; general courses preparatory to the study of law and journalism; pre-professional training in medicine, dentistry, and pharmacy.

College of Commerce and Business Administration.—Curricula in general business, trade and civic secretarial service, banking and finance, insurance, accountancy, transportation, commercial teaching, foreign commerce, industrial administration, public utilities, and commerce and law.

College of Engineering.—Curricula in agricultural engineering, ceramics, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering physics, general engineering, mechanical engineering, metallurgical engineering, mining engineering, and railway engineering.

College of Agriculture.—Curricula in agriculture, floriculture, general home economics, and nutrition and dietetics.

College of Education.—Curricula in education, agricultural education, home economics education, and industrial education. The University High School is the practice school of the College of Education.

College of Fine and Applied Arts.—Curricula in architecture, landscape architecture, music, and painting.

College of Law.—Professional curriculum in law.

School of Journalism.—General and special curricula in journalism.

School of Physical Education.—Curricula in physical education for men and for women.

Library School.—Curriculum in library science.

Graduate School.—Advanced study and research.

University Extension Division.—For a list of correspondence courses conducted by members of the faculties of the colleges and schools at Urbana and equivalent to courses offered to resident students, address the Director of the Division of University Extension, 109 University Hall, Urbana, Illinois.

Colleges in Chicago

College of Medicine.—Professional curriculum in medicine.

College of Dentistry.—Professional curriculum in dentistry.

College of Pharmacy.—Professional curriculum in pharmacy.

University Experiment Stations, and Research and Service Bureaus at Urbana

Agricultural Experiment Station
Engineering Experiment Station
Extension Service in Agriculture and Home Economics
Bureau of Business Research
Bureau of Community Planning
Bureau of Educational Research
Bureau of Institutional Research

State Scientific Surveys and Other Divisions at Urbana

State Geological Survey
State Natural History Survey
State Water Survey
State Historical Survey
State Diagnostic Laboratory (Animal Pathology)
State Division of Plant Industry
U. S. Weather Bureau Station

For general catalog of the University, special circulars, and other information, address

The Registrar, University of Illinois
Urbana, Illinois

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1938/39

UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

Announcement for
1938-1939

PUBLISHED BY THE UNIVERSITY OF ILLINOIS
CHICAGO

UNIVERSITY OF ILLINOIS CIRCULAR
Published four times a year in the months of March, June, July, and August, at Chicago, Illinois

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UNIVERSITY OF ILLINOIS CIRCULAR

COLLEGE OF PHARMACY

[Chicago College of Pharmacy 1859-1896]

Announcement for
1938-1939

[Seventy-eighth Annual Announcement]

715 SOUTH WOOD STREET
CHICAGO, ILLINOIS
1938

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UNIVERSITY
OF ILLINOIS
:: PRESS ::

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COLLEGE CALENDAR

First Semester

1938

Sept. 12-17, Monday-Saturday	Special examinations.
Sept. 26, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Sept. 27, Tuesday, 8 A.M.	Instruction begun.
Nov. 24, Thursday	Thanksgiving day.
Dec. 24, Saturday, 12 M.	Holiday recess begun.

1939

Jan. 9, Monday, 8 A.M.	Instruction resumed.
Jan. 30, Monday	Semester examinations begun.
Feb. 4, Saturday	Semester examinations ended.

Second Semester

Feb. 6, Monday, 8 A.M. to 5 P.M.	Registration and payment of fees.
Feb. 7, Tuesday, 8 A.M.	Instruction begun.
April 6, Thursday, 5 P.M.	Easter recess begun.
April 10, Monday, 8 A.M.	Instruction resumed.
May 25, Thursday	Semester examinations begun.
May 30, Tuesday	Memorial day.
May 31, Wednesday	Semester examinations ended.
June 8, Thursday	Class day and alumni meeting.
June 9, Friday	Commencement exercises.

UNIVERSITY OF ILLINOIS
BOARD OF TRUSTEES

MEMBERS EX OFFICIO

HENRY HORNER, *Governor of Illinois*	Springfield
JOHN A. WIELAND, *Superintendent of Public Instruction*	Springfield

ELECTED MEMBERS

(Term 1933-1939)

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ORVILLE M. KARRAKER	Harrisburg
DR. KARL A. MEYER	Cook County Hospital, Chicago

(Term 1935-1941)

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MRS. GLENN E. PLUMB	4816 Dorchester Avenue, Chicago
HAROLD A. POGUE	705 North Oakland Avenue, Decatur

(Term 1937-1943)

HOMER MAT ADAMS	509 Illinois Building, Springfield
JAMES M. CLEARY	310 South Michigan Avenue, Chicago
LOUIS C. MOSCHEL	P. O. Box 146, Pekin

Officers of the Board

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HARRISON E. CUNNINGHAM, *Secretary*	Urbana
FRANK M. GORDON, *Treasurer*	First National Bank, Chicago
LLOYD MOREY, *Comptroller*	Urbana

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MRS. GLENN E. PLUMB (Chairman), DR. KARL A. MEYER, JAMES M. CLEARY

OFFICERS AND COMMITTEES

Administrative Officers

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William Baker Day, Ph.G., Pharm.M., *Dean of the College of Pharmacy*

George Philip Tuttle, B.S., *Registrar of the University,* Urbana

Lloyd Morey, A.B., B.Mus., LL.D., C.P.A., *Comptroller of the University,* Urbana

George Robert Moon, A.M., *Examiner and Recorder for the Chicago Professional Schools*

John Edson Millizen, A.B., *Business Agent for the Chicago Professional Schools*

Mary M. Scanlan, *Secretary to the Dean of the College of Pharmacy*

University Committees for the Chicago Professional Schools

Health Service.—W. W. Dalitsch (Chairman), A. H. Clark, R. L. Ladd.

Library.—O. F. Kampmeier (Chairman), O. Bergeim, B. Fantus, F. K. Hick, R. G. Kesel, E. Oldberg, W. F. Petersen, I. Schour, P. L. Schroeder, E. Gellhorn, Wilma A. Troxel.

Policy and Discipline.—D. J. Davis (Chairman), W. B. Day, F. B. Noyes.

Advisory Board to the College of Pharmacy

J. F. Shreve, Jacksonville

Leo L. Mrazek, Chicago

Fred W. Rauth, Springfield

Byron Armstrong, Jacksonville

THE COLLEGE OF PHARMACY

History

The College of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859. Prior to that time there were but three schools of pharmacy in the country, and these were located in the Eastern states.

While the primary object of the institution was to provide instruction in the science and art of pharmacy, other functions were developed. Thus, a code of ethics was early adopted by the members; successful efforts were made to bring about better relations between pharmacists and physicians; the pioneer pharmaceutical library was established; and for eighteen years, beginning with 1868, a monthly journal, *The Pharmacist*—the first of its kind in the West—was published.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. Of the first class, but two students were graduated in 1861. The war caused a suspension of the teaching, and the school was not reopened until 1870. The great fire of 1871 destroyed the equipment, but pharmacists throughout Europe and America extended help to the institution, furnishing a library and an outfit of apparatus, which became the nucleus of the present equipment. In 1872 the instruction was resumed for the second time and has since continued without interruption.

In 1880 the members and graduates of the College took an active part in the formation of the Illinois Pharmaceutical Association, which in the following year secured the passage of the pharmacy law.

The twenty-fifth anniversary of the founding of the College was signalized by the removal of the College to a larger building. Laboratory courses in pharmacy, chemistry, and botany were made obligatory.

The College was formally united with the University on May 1, 1896, and became the School of Pharmacy of the University of Illinois. In its management, the trustees and officers of the University have had the assistance of an advisory board of pharmacists nominated by the pharmacists of the state, through the Illinois Pharmaceutical Association.

In 1904 the University secured for the use of the School of Pharmacy the building located at Michigan Boulevard and Roosevelt Road, where the School remained for twelve years.

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy Streets, comprising eight city lots with two large brick buildings. These quarters were occupied in June, 1916.

On May 22, 1917, the School of Pharmacy of Northwestern University was taken over by the University of Illinois.

In 1925 the General Assembly appropriated the sum of $350,000 for erecting and equipping an additional building for the School on a site immediately adjoining the present buildings. This building was occupied September 1, 1927.

In February, 1926, the University turned over to the School the building at 721 South Wood Street. In 1932, with the establishment of the four-year course, the name of the School was changed to the College of Pharmacy of the University of Illinois.

Location

The location of the College of Pharmacy is in the great clinical center of Chicago and close to the dental and medical colleges of the University. It is removed from the noise of the business district, yet is convenient to various lines of transportation.

Two blocks east is the Polk Street Station of the Douglas Park division of the Metropolitan Elevated Railway. Two blocks north and two blocks west is the Ogden Avenue Station of the Garfield Park division of the same railroad. The Marshfield Avenue Station, where all the Metropolitan branches converge and the Elgin-Aurora Interurban stops, is within a half mile. The Harrison Street, Roosevelt Road, and Ashland Avenue surface lines all pass within a short distance of the school.

The college property has a frontage of 280 feet on Wood Street and 124 on Flournoy Street.

Buildings and Equipment

The college buildings include a new and modern fireproof building four stories in height, and three older brick buildings. All are connected by corridors and stairways on each floor. These buildings have daylight from four sides, electric light throughout, and are heated by steam.

The corner building at the north is 60 by 80 feet square and four stories in height. It contains the pharmacognosy laboratory, the bacteriology laboratory, a physics laboratory, an auditorium seating 270 persons, a classroom seating 90 persons, museums, offices, locker rooms, and storerooms.

Adjoining it to the south is a building 44 by 88 feet square and three stories in height. It contains a pharmaceutical laboratory and two chemical laboratories as well as offices and storerooms.

The next building has a frontage of 80 feet on Wood Street and extends back 124 feet. It is four stories in height and contains the general offices of the school, the library, two pharmaceutical laboratories, two chemical laboratories, a botanical laboratory, a classroom seating 72 persons, a balance room, an electrical laboratory, offices, storerooms, and a locker room.

The south building is 48 by 70 feet square and three stories in height and contains two classrooms each seating 36 persons, offices, and students' rooms.

Lecture Rooms.—There are two lecture rooms seating respectively 150 and 120 persons and three smaller classrooms seating respectively 36, 36, and 72 persons.

Laboratories.—Eleven laboratories having a total capacity of 725 students working at one time are provided. These laboratories are suitably equipped and have gas, electricity, hot and cold water, distilled water, and compressed air. In each laboratory the student is provided with a suitable individual kit of apparatus and glassware. There is also an equipment of apparatus for use by the class in common. Microscopes, prescription scales, analytical balances, steam baths, and electric ovens are included in the general equipment. Machinery suitable for commercial manufacturing is supplied for class demonstrations in pharmacy. The pharmacognosy collection of crude drugs numbers six hundred.

Library.—The Library contains over six thousand volumes, including, in addition to the usual works of reference, a number of rare books, complete files

of the leading pharmaceutical periodicals, and sets of the Proceedings of the American Pharmaceutical Association and of the British Pharmaceutical Conference.

MUSEUM.—The Museum occupies two large rooms and is equipped with suitable cases for displaying specimens. Apparatus, new and old, collections of chemical and pharmaceutical products, and files of prescriptions are included. Other features are illustrations of medicinal plants and an herbarium, which numbers several thousand specimens.

STUDENTS' ROOMS.—Two locker rooms for students are provided with 700 steel lockers for coats, hats, and books. A rest room for women students is also provided.

Requirements for Admission

Applicants for admission to the College of Pharmacy of the University of Illinois must present satisfactory evidence of five years of work as follows:

1. Four years of work in an accredited high school or the equivalent, comprising not fewer than 15 units in acceptable subjects, including prescribed subjects as follows:

	Units
English	3
Algebra	1
Plane Geometry	1
Electives	10
Total	15

2. One year of work in a recognized college or university, comprising not fewer than 30 semester hours, exclusive of military science, physical education, and hygiene. The work must include prescribed and elective subjects as follows:

	Semester Hours
Chemistry (preferably including qualitative analysis)	8–10
English	6
Mathematics (algebra)	3

The Dean of the College and the Registrar may waive for one semester the requirement of algebra, provided that (a) the candidate's general scholastic average is at least 3.5 or the equivalent, and (b) the candidate satisfactorily completes three semester hours of algebra in some recognized college or university during his first semester of residence in the College of Pharmacy.

The remaining hours are to be made up from electives, subject to the following restrictions: No work in chemistry in addition to the prescribed work may be elected; and no course in subjects offered in the College of Pharmacy (including botany, physiology, physics, and bacteriology) may be elected for admission, but such subjects may be offered for credit on the pharmacy curriculum. As desirable electives the following are recommended: accountancy, economics, history, trigonometry, and zoology.

A person whose record at some other institution comes within either of the following classifications may enter the University only on approval of the dean of the college concerned and under conditions imposed by him: (1) A person dropped from another institution for poor scholarship or for disciplinary reasons. (In the latter case he must also obtain approval of the University Senate Committee on Discipline.) (2) A person whose record shows as much as fifty per cent (or more than twenty-five hours) of unsatisfactory work, i.e., unremoved failures and credits earned with a grade equivalent to the lowest passing grade in the University of Illinois.

PREFERENCE TO ILLINOIS RESIDENTS.—In considering applications for admission, preference will be given candidates who are residents of Illinois.

CREDENTIALS ACCEPTED FOR ADMISSION.—Credentials which are accepted towards admission to the University become the property of the University and are kept permanently in the files.

STATE QUALIFYING CERTIFICATE.—The Department of Education and Registration of the State of Illinois requires each student entering a recognized college of pharmacy to present a qualifying certificate. The application for this certificate may be made at the time that the student registers in the college, and blanks will be supplied by the college for the convenience of students in making this application.

Advanced Standing

The University will accept scholarship and time credits for work done in schools of pharmacy having standards equal to those of the College of Pharmacy of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the school in which he has pursued his pharmaceutical studies and must comply with the requirements for such promotion in the University of Illinois.

Requirements for Graduation

The candidate for the degree of Bachelor of Science must meet the following requirements:

1. He must show evidence of good moral character.
2. He must have paid all indebtedness to the University.
3. He must have successfully completed the prescribed courses, of which at least the last year must have been at the University of Illinois.
4. He must have secured grades of not less than "C" in subjects aggregating at least three-fourths of the work taken in the College of Pharmacy and required for the degree.

Graduation With Honors

A student who has complied with the requirements for graduation from the College of Pharmacy and who attains in all the work done in the courses offered by the College and presented for the degree, the average grade specified below, may be recommended by the University Senate for the honors stated: for an average grade of not less than 4.35, Graduation with Honors; for an average grade of not less than 4.75, Graduation with High Honors. The honors conferred shall be noted upon the diploma and in the Commencement program.

State Registration

To register as a pharmacist in Illinois one must either pass the examination given by the Illinois State Department of Registration and Education, or register

by reciprocity with another state. Illinois reciprocates with forty-three states on the basis of presentation of a diploma from a recognized school of pharmacy and registration by examination in any one of these states.

The amendment to the Illinois Pharmacy law in effect July 1, 1917, requires that a candidate for the certificate of registered pharmacist be of the age of twenty-one years or over, of good moral character and temperate habits, a graduate from a school of pharmacy recognized by the State Department of Registration and Education, and who has had four years experience in pharmacy. Actual time of attendance at a recognized school of pharmacy, but not to exceed two years, will be allowed on the four years experience required by law. The remainder of the experience must have been in compounding and dispensing drugs, medicines, and poisons under the supervision of a registered pharmacist in a drug store or pharmacy where the prescriptions of medical practitioners are compounded. Attention is called to the fact that this is the only recognized college of pharmacy in Illinois.

It is important that every student desiring to qualify in Illinois should become registered as an apprentice as early as possible.

Fees and Expenses

	Sophomore Year		*Junior Year*		*Senior Year*	
	First Semester	Second Semester	First Semester	Second Semester	First Semester	Second Semester
Matriculation[1]	$10.00	.....	.....	.....	.....	.....
Tuition[2]	50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Laboratory fee[3]	23.00	29.00	36.00	27.00	35.00	31.00
Graduation fee	.....	.....	.....	.....	.....	10.00
Totals[4]	$83.00	$79.00	$86.00	$77.00	$85.00	$91.00

ADDITIONAL FEE.—Original transcript of record, $1.00;[5] for each carbon copy of same, 50 cents.

LATE REGISTRATION FEE.—A late registration fee of $5.00 will be charged to former students who do not present themselves for the payment of fees on the day designated in the college calendar.

LISTENER'S FEES.—Persons not connected with the University who attend classes as listeners, pay for each semester hour, $10.00 if residents of Illinois, or $20.00 if not residents of Illinois.

PAYMENT OF FEES.—All fees are payable in advance during the registration days of each semester. Special students pay no matriculation fees.

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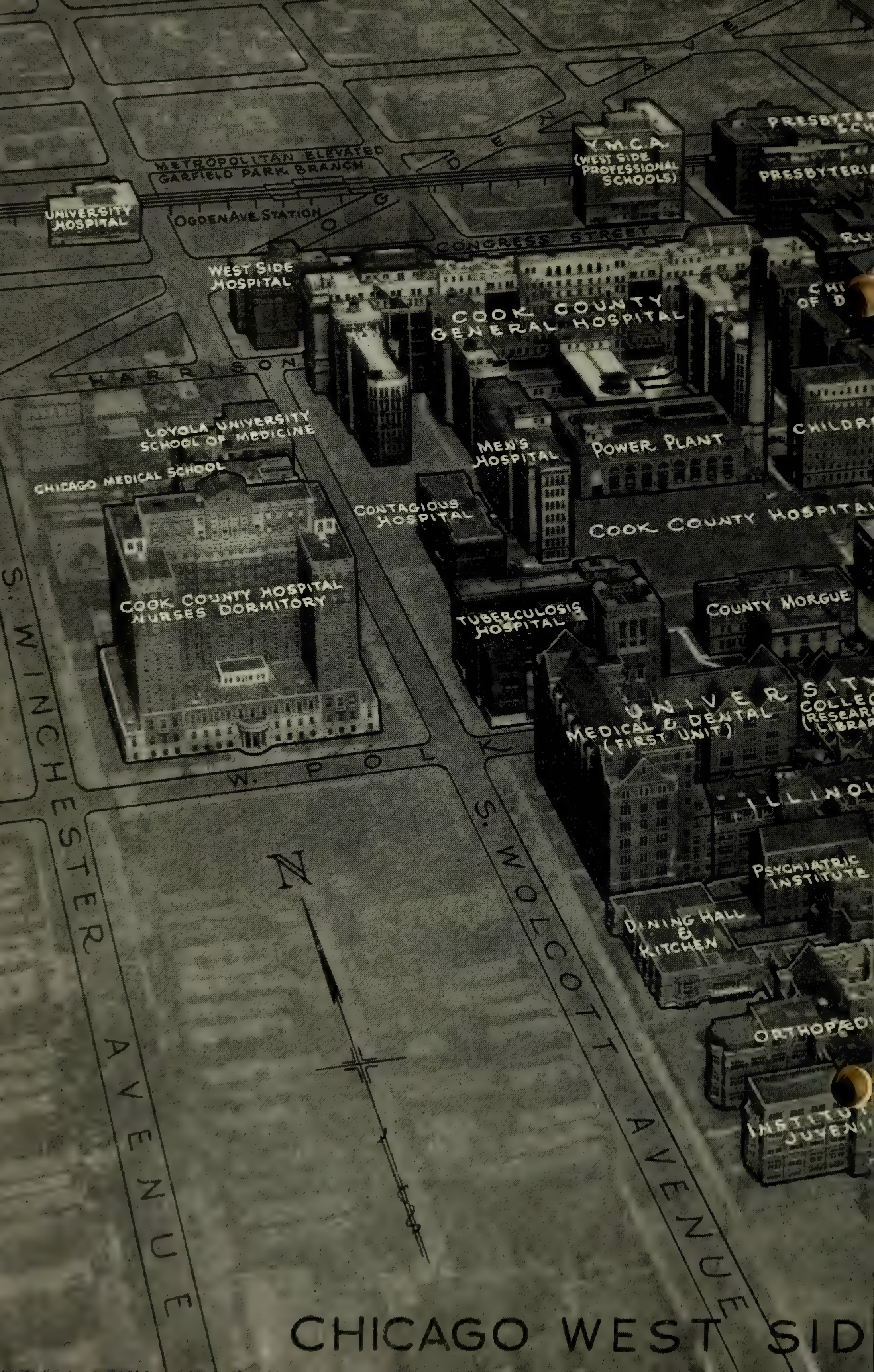
[1] The matriculation fee is not required of students who have previously matriculated in any other college of the University of Illinois.

[2] The tuition fee of $50.00 each semester applies to students who are residents of Illinois. Those who are *not* residents of Illinois pay a tuition fee of $75.00 each semester. Students registered for ten hours or more in any one semester pay the full tuition fee ($50.00 if residents, $75.00 if not residents). Students registered for less than ten hours in any one semester pay $5.00 per credit hour if residents of Illinois, or $7.50 per credit hour if not residents of Illinois.

[3] The laboratory fee covers all drugs, chemicals, and other material used by the student in the laboratories as well as non-returnable apparatus and a minimum amount of breakage.

[4] These totals apply to students who are residents of Illinois. Others see note 2 above.

[5] Each student is entitled to one transcript of record, without a fee, but he must pay for extras in the way of carbons supplied with the original transcript or for second request for original.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Y.M.C.A.
(WEST SIDE PROFESSIONAL SCHOOLS)
METROPOLITAN ELEVATED GARFIELD PARK BRANCH
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UNIVERSITY HOSPITAL
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CHICAGO MEDICAL SCHOOL
CONTAGIOUS HOSPITAL
COOK COUNTY HOSPITAL
COOK COUNTY HOSPITAL NURSES DORMITORY
TUBERCULOSIS HOSPITAL
COUNTY MORGUE
S. WINCHESTER AVENUE
UNIVERSITY
MEDICAL & DENTAL (FIRST UNIT)
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W. POLK
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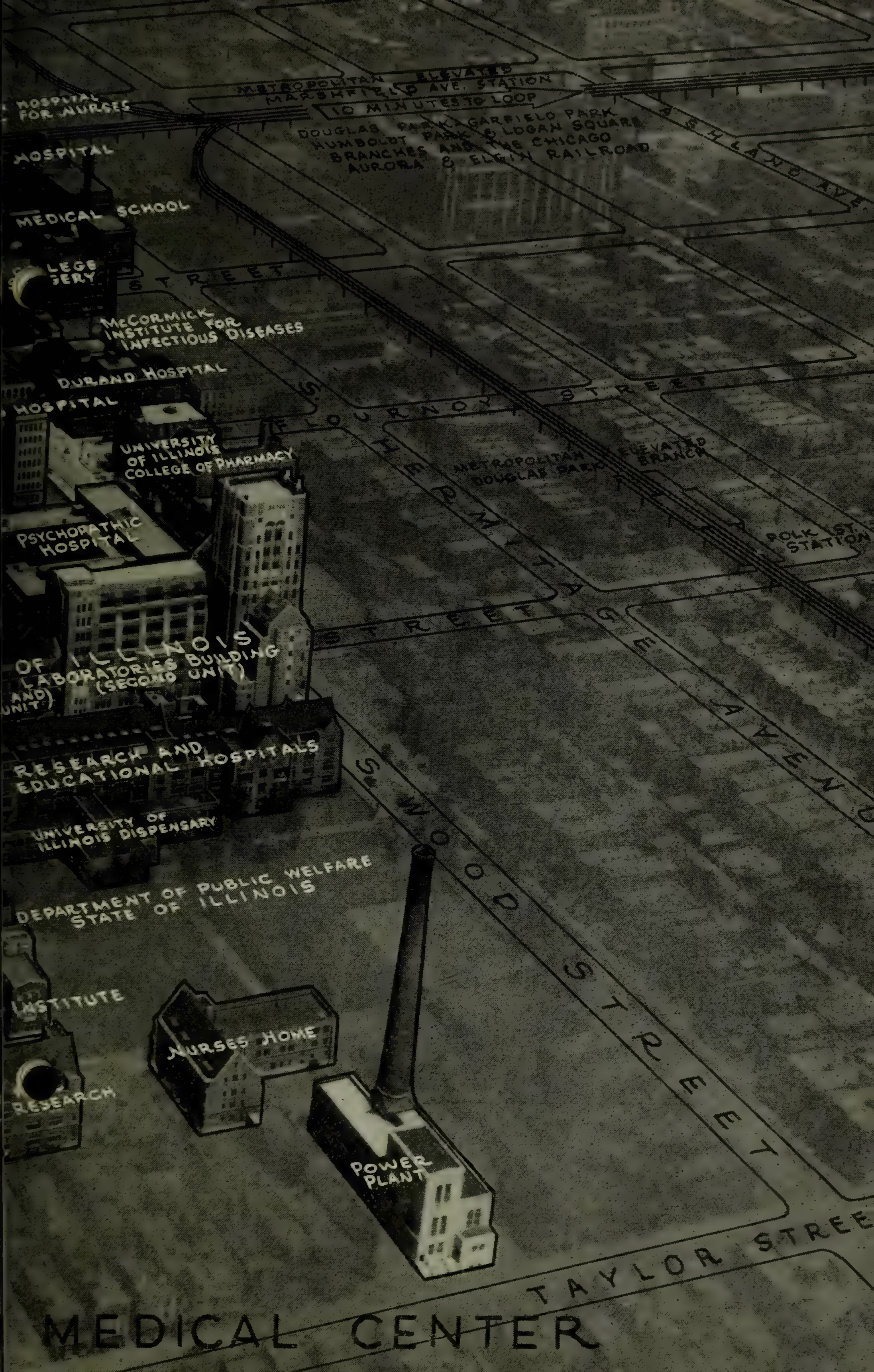
METROPOLITAN ELEVATED
MARSHFIELD AVE. STATION
10 MINUTES TO LOOP
DOUGLAS PARK, GARFIELD PARK
HUMBOLDT PARK & LOGAN SQUARE
BRANCHES AND THE CHICAGO
AURORA & ELGIN RAILROAD
ASHLAND AVE
HOSPITAL
FOR NURSES
HOSPITAL
MEDICAL SCHOOL
LEGE
GERY
STREET
McCORMICK
INSTITUTE FOR
INFECTIOUS DISEASES
DURAND HOSPITAL
HOSPITAL
FLOURNOY STREET
UNIVERSITY
OF ILLINOIS
COLLEGE OF PHARMACY
METROPOLITAN ELEVATED
DOUGLAS PARK BRANCH
POLK ST.
STATION
PSYCHOPATHIC
HOSPITAL
HERMITAGE AVENUE
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OF ILLINOIS
LABORATORIES BUILDING
(SECOND UNIT)
AND)
UNIT)
RESEARCH AND
EDUCATIONAL HOSPITALS
UNIVERSITY OF
ILLINOIS DISPENSARY
S. WOOD STREET
DEPARTMENT OF PUBLIC WELFARE
STATE OF ILLINOIS
INSTITUTE
NURSES HOME
RESEARCH
POWER
PLANT
TAYLOR STREE
MEDICAL CENTER

CHANGE FEE.—For every change of study-list made later than the Monday noon following registration, a fee of $1.00 is charged, except that the total charge for the rearrangement authorized on any one change slip shall not exceed $2.00.

SERVICE CHARGE FOR DEFERRED FEES.—Under certain conditions, students may arrange for the payment of their fees in installments, in which case a service charge of ten per cent of the amount of fees deferred is assessed for the privilege of deferring fees, and this charge must be paid on the day of registration. If deferred fees are paid in full within ten days after registration, the service charge is refunded except that a minimum service charge of $1.00 is retained by the University in all cases.

REBATES OF FEES.—In case a student withdraws from the College within ten days after the beginning of the instruction the total amount of his fees *except the matriculation fee* will be refunded. After ten days and before the expiration of one month a refund of three-fourths of the tuition and laboratory fees will be made. After one month and before the expiration of two months a refund of one-half of these fees will be made. After two months and before the expiration of three months a refund of one-fourth of the fees will be made. After the expiration of three months no part of the fees will be refunded. The matriculation fee is paid but once and is not rebated.

BOARD AND LODGING.—The expense of board and room together ranges from $10 to $15 a week. They may be had separately if desired. There are many satisfactory boarding and rooming places within a convenient distance from the College. Information regarding these will be supplied by the Y.M.C.A. secretary.

The ten-story Y.M.C.A. building, located just two blocks north of the College, affords a comfortable home for students.

BOOKS.—The expense of books is moderate. About thirty-five dollars will purchase all the books required for the first year.

Legislative Scholarships

The following scholarships established by act of the General Assembly of Illinois are open to students in the College of Pharmacy:

GENERAL ASSEMBLY SCHOLARSHIPS.—One nomination annually by each member of the General Assembly. Nominations must be received by the President of the University not later than the first Monday in July of the year in which the scholarship is to become effective.

STATE MILITARY SCHOLARSHIPS.—For World War Veterans. Special provision passed by the General Assembly of 1919.

(For circulars giving more detailed information concerning these scholarships apply to the Registrar of the University, Urbana.)

Fairchild Scholarship

Mr. Samuel W. Fairchild of New York City offers a scholarship, annually, amounting to five hundred dollars, to a graduate of a college of pharmacy holding membership in the American Association of Colleges of Pharmacy, who will undertake to do post-graduate work in the year immediately following his graduation.

Competitors for this scholarship must have completed a four-year high school course and either a three-year or a four-year course in a college of pharmacy.

The award will be made by competitive examination. Not more than two candidates may be offered from any one college.

Ebert Loan Fund

In May, 1917, the Women's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the College of Pharmacy. In June, 1921, the organization added $116 and in 1923, $360, to this fund.

In 1907, following the death of Mr. Albert E. Ebert, who had taken an active part in the development of the College in its earlier years, the Alumni Association undertook to raise a fund to be used as a scholarship fund and to perpetuate the memory of Mr. Ebert. The amount subscribed was not sufficient to establish the scholarship and in 1931 the Alumni Association voted to turn over this amount to the Women's Loan Fund provided that the name of the loan fund would be changed to the Albert E. Ebert Loan Fund. The Women's Organization having consented to this change, there was added to this fund the sum of $1,197.87. At the close of the school year the class of 1932 contributed $53.85 to this fund. The total amount of the fund is $2,135.21. Loans from this fund are to be made to deserving students, men and women, preferably from Illinois, who are enrolled in the College. The loan is made upon the recommendation of the Dean and is to be repaid within four years for a sophomore student, three years for a junior student, or two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

Prizes

Pharmacy Prize.—Mr. Andrew Scherer, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in pharmacy.

Chemistry Prize.—Mr. Herman Elich, an alumnus of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in chemistry.

Hodel-Saltiel-Hodel Prize.—Mr. Oscar Hodel, Mr. Elmer Hodel, and Mr. Henry Saltiel, alumni of the College, offer jointly a prize of twenty-five dollars to be awarded to the senior student who is deemed most worthy of it, the award to be made by the faculty of the College.

Pedigo Prize.—Mr. Lee M. Pedigo, an alumnus of the College, offers a prize of a gold watch to the senior student, who in the opinion of the faculty, has shown the best knowledge of drugs as indicated by his class work in materia medica and pharmacognosy.

American Pharmaceutical Association Membership.—Mr. William Gray offers a membership in the American Pharmaceutical Association for one year as a prize for excellence in dispensing.

WOMAN'S PRIZE.—Mr. Samuel L. Antonow offers a prize of twenty-five dollars to the woman student who receives the highest average during the entire course leading to the degree.

MATERIA MEDICA PRIZE.—Mrs. Alice E. Pelikan, an alumna of the College, offers a prize of twenty-five dollars to the senior student who attains the highest average in materia medica.

LAMBDA KAPPA SIGMA KEY. — Gamma Chapter of Lambda Kappa Sigma pharmaceutical sorority offers a prize, consisting of a key, to the member of the sorority who obtains the highest average in the entire course leading to the degree.

VAN SCHAACK AWARD.—The late Cornelius P. Van Schaack bequeathed to the College of Pharmacy the sum of one thousand dollars to be held in trust, the income to be used annually for the purchase of a gold medal, known as the C. P. Van Schaack Award, for the senior student who makes the highest average in his college courses in chemistry.

Organizations

The Chicago Branch of the American Pharmaceutical Association composed of representative pharmacists of Chicago and vicinity has its headquarters at the College of Pharmacy. Meetings for the discussion of subjects of pharmaceutical interest are held monthly during the session. Students of pharmacy are eligible to membership or may attend these meetings without becoming members and without expense.

Phi Chapter of Rho Chi, national honorary pharmaceutical society, organized to promote the advancement of the pharmaceutical sciences, is located at the College. Meetings for the discussion of the pharmaceutical sciences are held at stated times during the session. Elections to the society are held annually. Students who have completed 75 hours of scholastic work and have attained an average of at least 85 per cent or its equivalent are eligible for membership.

This College holds membership in the American Association of Colleges of Pharmacy. The object of the association is to promote the interests of pharmaceutical education, and all institutions holding membership must maintain certain minimum requirements for entrance and graduation. Through the influence of this association higher standards of education have been adopted from time to time and the fact that several states by law or by Board of Pharmacy ruling recognize the standards of the association is evidence of this influence.

For further information or for an application blank, address

THE DEAN, COLLEGE OF PHARMACY
715 South Wood St., Chicago, Ill.

THE FOUR-YEAR CURRICULUM

This course comprises four years of college work and leads to the degree of Bachelor of Science in Pharmacy. The first year is administered as a pre-pharmacy year of work in a recognized college or university and consists of not less than 30 semester hours as specified on page 13 of this circular.

The first year of this curriculum as offered in the College of Liberal Arts and Sciences of the University of Illinois at Urbana is as follows:

Freshman Year

First Semester	Hours	*Second Semester*	Hours
Rhetoric 1	3	Rhetoric 2	3
Mathematics 2 or 3	3 or 5	Mathematics 4	2
Chemistry 2 or 1	3 or 5	Chemistry 5	5
Electives[1]	6-0	Electives[1]	5
Physical Education		Physical Education	
Hygiene		Military (for men)	
Military (for men)			
Total	15	Total	15

MATERIA MEDICA AND BOTANY

Professor Day, Professor Gathercoal, Associate Professor Wirth, Assistant Professor Emig (Cooperating), Mr. Carpenter, Miss Meyer, Mr. Cox, Mr. Adamson, Mr. Bruch, Mr. Vicher

Sophomore Year

21. *General Botany.*—A general course dealing chiefly with the flowering plants. Three lectures or recitations and one laboratory period of three hours each week. (4 semester hours, 6 clock hours.) First semester.
Professor Day, Professor Gathercoal, Mr. Carpenter

22. *Plant Histology.*—The microscopic structure of plants with special reference to vegetable drugs; microscopical technic; the application of micro-chemical tests, staining, etc. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester.
Professor Gathercoal, Mr. Carpenter, Mr. Adamson

Junior Year

31. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, including their titles, synonyms, definitions, collection, preservation, identification, standardization, therapeutic use, and dose. The vegetable drugs are classified according to botanical source and the animal drugs according to zoological source. The laboratory work includes a study of the crude drugs in whole and powdered form, leading to their recognition and the determination of their quality and purity by organoleptic, microscopic, and micro-chemical means. Two

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[1] Electives recommended are: Accountancy 1a; History 1a, 1b, or 2a, 2b; Zoology 1, 2; Economics 22, 27. The following are not accepted as electives, because they are included in the curriculum of the College of Pharmacy: Botany, Physiology, Physics, Bacteriology, and additional courses in Chemistry.

lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. *Prerequisite:* Plant Histology course 22. Associate Professor WIRTH, Mr. COX, Mr. BRUCH

32. *Pharmacognosy.*—A continuation of Course 31. Two lectures or recitations and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) Second semester. Associate Professor WIRTH, Mr. COX, Mr. BRUCH

34. *Physiology.*—A course in which the important features concerning the anatomy, physiology, and hygiene of the various systems of the human body are studied. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester. Assistant Professor EMIG

Senior Year

41. *Bacteriology.*—Characteristics of bacteria, yeasts, and molds; their relation to disease; biologic products prepared from them. Action of antiseptics, disinfectants, and sterilizants. Cleaning and sterilizing glassware; preparation of culture media and staining solutions; preparation of cultures and stained mounts; isolation and identification of organisms from mixed cultures; study of pathogenic organisms; milk and water counts; disinfectant standardization. Three lectures or recitations and three three-hour laboratory periods each week. (6 semester hours, 12 clock hours.) First or second semester.
Professor GATHERCOAL, Miss MEYER, Mr. VICHER

42. *Materia Medica.*—Pharmacology, posology, toxicology. Two lectures and one recitation each week. (3 semester hours, 3 clock hours.) Second semester. Professor DAY, Associate Professor WIRTH, Miss MEYER

44. *Pharmacognosy.*—A study of the drugs of vegetable and animal origin, based upon their important constituents. The laboratory work includes the micro-isolation of the constituents from drug material and the identification of these constituents by microscopical and micro-chemical means. The groups studied include carbohydrates, mucilages and gums, glucosides, alkaloids, fixed oils, volatile oils, oleoresins, resins, balsams, tannins, phloroglucinol derivatives, enzymes, hormones, etc. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First or second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Associate Professor WIRTH, Mr. ADAMSON

46. *Microscopy of Foods.*—Optional. Should be elected simultaneously with Chemistry course 44. May be elected in lieu of Pharmacognosy course 44 only by special permission of the head of the department. A microscopical study of foods including cereals and cereal products, spices and condiments, oil seeds and oil cakes, legumes, nuts, fruit and fruit products, vegetables, tea, coffee, cocoa, etc., including their identification and the determination of their quality and purity by microscopical means. Special reference will be made to legal standards governing these foods. Food products purchased in the open market will be brought to the laboratory for examination. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. *Prerequisite:* Pharmacognosy courses 31 and 32.
Associate Professor WIRTH, Mr. ADAMSON

CHEMISTRY

Professor Clark, Assistant Professor Davis, Assistant Professor Webster,
Mr. Clarke, Dr. Powers, Dr. Oakdale, Mr. Kirch,
Mr. Soderdahl, Mr. Gershon, Mr. Kaski

Sophomore Year

21. *Pharmaceutical Qualitative Analysis.*—A course in which the qualitative reactions of both the metallic and nonmetallic ions are used in the application of the tests of identity and purity of the United States Pharmacopoeia. Samples of U.S.P. chemicals and preparations as purchased in the open market will be examined to determine whether or not they meet the requirements of the U.S.P., and incidentally comply with the regulations of the National Food and Drugs Act. Other examples of peculiar interest to the student of Pharmacy will be studied. (Required of all students.) Two one-hour class periods and two three-hour laboratory periods each week. (4 semester hours, 8 clock hours.) First semester. Mr. Clarke, Mr. Gershon, Mr. Kaski

22. *Organic Chemistry.*—A systematic course in the study of the open chain hydrocarbons and their derivatives. Particular attention will be given to those substances which are of importance to students of pharmacy and medicine. In the laboratory work the usual type reactions will be studied but particular attention will be given to reactions of special interest. The qualitative examination of U.S.P. organic substances and preparations will receive extended and special consideration. Four one-hour class periods and one four-hour laboratory period each week. (5 semester hours, 8 clock hours.) Second semester.
Assistant Professor Davis, Mr. Kirch, Mr. Kaski

24. *General Physics.*—A general discussion of the fundamental principles of mechanics, heat, and sound. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) Second semester. Dr. Powers, Mr. Soderdahl

Junior Year

31. *Organic Chemistry.*—This course is a continuation of Chemistry 22 but is devoted almost entirely to the aromatic compounds. As in Chemistry 22, pharmaceutical applications are emphasized in both the theoretical and the laboratory work. The composition of volatile oils and the nature of their most important constituents are fully discussed. Alkaloids and related substances are extensively studied as to their constitution and its relationship to chemical and physiological action. The laboratory work is devoted to the preparation of typical substances, examination of U.S.P. products, analysis of drugs, etc. Three lectures or recitations and one four-hour laboratory period each week. (4 semester hours, 7 clock hours.) First semester.
Assistant Professor Davis, Mr. Kirch, Mr. Kaski

32. *Quantitative Analysis.*—The theories and technique of gravimetric and volumetric analysis are taught in this course. Whenever possible the methods of the U.S.P. are used to illustrate their application and pharmaceutical or medicinal products are used as material for practical examination. Three lectures or recitations and two three-hour laboratory periods each week. (5 semester hours, 9 clock hours.) Second semester.
Mr. Clarke, Mr. Gershon, Mr. Kaski

33. *General Physics.*—A continuation of the discussion of the principles of physics as related to the phenomena of electricity, magnetism, and light. Two lectures, one recitation, and one three-hour laboratory period each week. (4 semester hours, 6 clock hours.) First semester. Dr. POWERS, Mr. SODERDAHL

Senior Year

41. *Drug Assaying.*—A study of the principles and methods of drug standardization applied to substances included in the U.S.P. The course includes the preparation and standardization of volumetric solutions; assays of alkaloid bearing drugs, resinous drugs, essential oils, aldehydes, phenol, and nitrites; the determination of halogen in organic compounds, alcohol in pharmaceutical preparations, acid, saponification, and iodine value of fats, congealing point, refractive index, specific rotation, and kinematic viscosity. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) First semester.

Assistant Professor WEBSTER, Dr. OAKDALE, Mr. KASKI

42. *Advanced Drug Assaying.*—A continuation of the study of drug standardization methods as applied to commercial mixtures of medicinal chemicals, proprietary medicines, insecticides, pills, tablets, and enzymes. The quantitative methods of urine and blood analysis will be studied. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Assistant Professor WEBSTER, Dr. OAKDALE, Mr. KASKI

43. *Chemistry of Synthetic Drugs and Proprietary Medicines.*—In this course an attempt is made to classify all the "synthetic remedies" according to their chemical constitution in the order of arrangement followed in Chemistry 22 and 31. The relationship between their chemical constitution and physiological action is constantly discussed. Two lectures or recitations each week. (2 semester hours, 2 clock hours.) First semester. Professor CLARK

44. *Food Analysis.*—Optional. May be elected in place of Chemistry course 42 with permission of the head of the chemistry department. Offered to classes of six or more students. A study of the principles and methods of food analysis. Samples of food products will be purchased and subjected to physical and chemical examination for the detection of preservatives, added coloring, metallic poisons, and foreign substances. The chemical and physical constants of common food substances will be determined and compared with the state and federal requirements for these substances. Bottled beverages, canned vegetables, flavoring extracts, milk, butter, salad oils, table syrups, ice cream, baking powder, candy, and other food products will be examined. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Assistant Professor WEBSTER, Dr. OAKDALE, Mr. KASKI

46. *Synthesis of Drugs.*—Optional. May be elected in place of Chemistry course 42 by permission of the head of the chemistry department. Offered to classes of six or more students. A continuation of the study of organic chemistry and the application of the type reactions to the manufacture of organic medicinal chemicals and their intermediates. Barbital, cinchophen, acetphene-

tidine, phenolphthalein, tryparsamide, hexylresorcinol, guaiacol, methylene blue, or others may be selected in consultation with the instructor. Reference to the original work on the substance elected is encouraged. One lecture or recitation and two four-hour laboratory periods each week. (3 semester hours, 9 clock hours.) Second semester.

Assistant Professor WEBSTER, Dr. OAKDALE, Mr. KASKI

PHARMACY

Associate Professor TERRY, Assistant Professor EMIG, Mr. MORRISON,
Mr. MARTIN, Mr. SHKOLNIK, Mr. OCENASEK, Mr. TEMPLETON,
Mr. BRODY, Mr. COLLINS, Mr. KING, Mr. MAHER

Sophomore Year

21. *Introductory Pharmacy.*—Pharmacy in its historical, professional, and legal aspects; metrology and specific gravity; heat, its sources, and adaptations to pharmaceutical processes; use of apparatus, utensils, and devices employed in operative pharmacy; solution, its phenomena, causes and effects; filtration, etc. Outline of Galenical Pharmacy and study of simpler preparations. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester. Associate Professor TERRY, Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

22. *Galenical Pharmacy and Inorganic Pharmacy.*—Continuation of discussion of Preparations of the United States Pharmacopoeia and National Formulary involving simple solution and simple admixture; methods of preparation and strength; synonyms, uses and doses; the elements, inorganic acids, and salts, pharmaceutical and technical uses, posology, and therapeutic classifications. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Associate Professor TERRY, Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

23. *Introductory Pharmacy Laboratory.*—Work covering metrology, specific gravity, heat, pharmaceutical technique followed by the preparation of the simple galenicals such as waters and solutions. One recitation or lecture and one three-hour laboratory period each week. (2 semester hours, 4 clock hours.) First semester. Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

24. *Introductory Operative Pharmacy.*—Manufacture of the preparations ot the United States Pharmacopoeia and National Formulary made by simple solution and simple admixture. One lecture or recitation and one three-hour laboratory period each week. (2 semester hours, 4 clock hours.) Second semester. Mr. SHKOLNIK, Mr. BRODY, Mr. MAHER

25. *Arithmetic of Pharmacy.*—A comprehensive review of fundamentals of arithmetic; study of weights and measures, together with exercises in the conversion of one system to the others; common and decimal fractions; specific gravity, percentage and alligation as used in compounding prescriptions and making official preparations; thermometric scales and the conversion of one to the others; ratio and proportion as applied to the reduction and enlarging of official formulas and making salts; discount, commission and brokerage as used in commercial pharmacy. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Mr. MORRISON, Mr. SHKOLNIK, Mr. TEMPLETON, Mr. BRODY

Junior Year

31. *Galenical Pharmacy.*—A study of the preparations made by extractive processes including tinctures, fluid-extracts, extracts, etc., with a study of posology and therapeutic application. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) First semester.

Associate Professor TERRY, Mr. MARTIN, Mr. OCENASEK

32. *Galenical Pharmacy.*—Covering the solid internal and external preparations and such of the unofficial articles as are in common use. Three lectures or recitations each week. (3 semester hours, 3 clock hours.) Second semester.

Associate Professor TERRY, Mr. MARTIN, Mr. OCENASEK

33a. *Operative Pharmacy.*—Laboratory work involving the preparations of the more complex solutions, mixtures, syrups and elixirs and the simpler extractive preparations. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) First semester.

Mr. MARTIN, Mr. OCENASEK

34a. *Advanced Operative Pharmacy.*—The manufacture of the more involved preparations of the United States Pharmacopoeia and National Formulary. Solutions, mixtures, syrups, and elixirs requiring chemical reaction and extraction. Tinctures, fluidextracts, resins. One lecture or recitation and two three-hour laboratory periods each week. (3 semester hours, 7 clock hours.) Second semester. Mr. MARTIN, Mr. OCENASEK

Senior Year

41. *Organic Pharmacy.*—Official and unofficial drugs and compounds used in modern therapy studied from the standpoint of their source, characters, physical and chemical properties, doses and therapeutic applications. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) First semester. *Prerequisite:* All sophomore and junior pharmacy courses, including arithmetic.

Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

42. *Organic Pharmacy.*—Continuation of course 41 including animal drugs and vitamins, medicinal foods, etc., of both official and unofficial character. Two lectures and one recitation of one hour each week. (3 semester hours, 3 clock hours.) Second semester.

Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

43a. *Dispensing Laboratory.*—Introductory course in dispensing covering the types of preparations for extemporaneous compounding. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) First semester. Assistant Professor EMIG, Mr. TEMPLETON

44. *Advanced Dispensing Laboratory Practice.*—Compounding technics for the dispensing of complex prescription formulas. The manufacture of difficult extemporaneous preparations and the study of incompatible prescriptions with compounding practice. Pills, suppositories, cachets, tablet triturates, etc. Two three-hour laboratory periods each week. (2 semester hours, 6 clock hours.) Second semester. Assistant Professor EMIG, Mr. TEMPLETON

45. *Seminar in Library Practice.*—A study of pharmaceutical literature, scientific and commercial. Library arrangement and practice. Preparation of a series of reports covering selected topics. One recitation each week. (1 semester hour, 1 clock hour.) First semester. Associate Professor TERRY

46. *Seminar in Commercial Pharmacy.*—A discussion of commercial pharmaceutical practices. One recitation each week. (1 semester hour, 1 clock hour.) Second semester.

Associate Professor TERRY, Assistant Professor EMIG, Mr. TEMPLETON

48. *Business Law.*—A presentation of the fundamentals of commercial laws with special reference to their application to the retail drug business; principles of contracts, leases, agency, corporations, partnerships, bills and notes, chattel mortgages, conditional sale agreements, consignments, sales, bulk sales, and insurance. A discussion of federal, state, and local laws pertaining to the practice of the profession of pharmacy and to the conduct of a retail drug store; pure food and drug laws and regulations; poison, narcotic, and liquor laws and regulations; pharmacy ownership laws; common law and statutory rights, privileges, duties, and liabilities of registered pharmacists, assistant pharmacists, pharmacy apprentices, employers, and employees; and matters of reciprocity. Trade marks, copyrights, and patents relating to pharmaceutical preparations, apparatus, and processes. One hour lecture each week. (1 semester hour, 1 clock hour.) Second semester. Mr. SHKOLNIK

50. *Hospital Practice.*—Affiliated with the College is the Research and Educational Hospital where each candidate for the degree must work not less than 50 clock hours. This requirement may be met during the junior and senior years. The candidate prepares pharmaceutical preparations and compounds prescriptions from the physicians of the clinics and hospital. (1 semester hour.)

Mr. MORRISON, Mr. COLLINS

SUMMARY OF CURRICULUM LEADING TO B.S. DEGREE

Freshman Year

Thirty semester hours in an accredited college of liberal arts, including the specific requirements listed on page 13 of this circular.

Sophomore Year

First Semester

	Clock hours each week Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 21.—Introductory Pharmacy	3	..	3	3
Pharm. 23.—Introductory Pharmacy Laboratory	1	3	4	2
Pharm. 25.—Arithmetic	3	..	3	3
Chem. 21.—Qualitative Analysis	2	6	8	4
Mat. Med. & Bot. 21.—General Botany	3	3	6	4
Total for semester	12	12	24	16

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 22.—Galenical Pharmacy	3	..	3	3
Pharm. 24.—Introductory Operative Pharmacy	1	3	4	2
Chem. 22.—Organic Chemistry	4	4	8	5
Chem. 24.—General Physics	3	3	6	4
Mat. Med. & Bot. 22.—Plant Histology	2	6	8	4
Total for semester	13	16	29	18

Junior Year

First Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 31.—Galenical Pharmacy	3	..	3	3
Pharm. 33a.—Operative Pharmacy	1	6	7	3
Chem. 31.—Organic Chemistry	3	4	7	4
Chem. 33.—General Physics	3	3	6	4
Mat. Med. & Bot. 31.—Pharmacognosy	2	6	8	4
Total for semester	12	19	31	18

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 32.—Galenical Pharmacy	3	..	3	3
Pharm. 34a.—Advanced Operative Pharmacy	1	6	7	3
Chem. 32.—Quantitative Analysis	3	6	9	5
Mat. Med. & Bot. 32.—Pharmacognosy	2	6	8	4
Mat. Med. & Bot. 34.—Physiology	3	..	3	3
Total for semester	12	18	30	18

Senior Year

First Semester

	Clock hours each week Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 41.—Organic Pharmacy	3	..	3	3
Pharm. 43a.—Dispensing Laboratory	..	6	6	2
Pharm. 45.—Seminar in Library Practice	1	..	1	1
Chem. 41.—Drug Assaying	1	8	9	3
Chem. 43.—General Organic Chemistry	2	..	2	2
Mat. Med. & Bot. 41.—Bacteriology[1]	3	9	12	6
Total for semester	10	23	33	17

Second Semester

	Didac.	Lab.	Total clock hours	Total semester hours
Pharm. 42.—Organic Pharmacy	3	..	3	3
Pharm. 44.—Advanced Dispensing Laboratory	..	6	6	2
Pharm. 46.—Seminar in Commercial Pharmacy	1	..	1	1
Pharm. 48.—Business Law	1	..	1	1
Pharm. 50.—Hospital Practice	..	..*	..*	1
Chem. 42.—Advanced Drug Assaying	1	8	9	3
Chem. 44.—Food Analysis[2]	(1)	(8)	(9)	(3)
Chem. 46.—Synthesis of Drugs[2]	(1)	(8)	(9)	(3)
Mat. Med. & Bot. 42.—Materia Medica	3	..	3	3
Mat. Med. & Bot. 44.—Pharmacognosy[1]	1	6	7	3
Mat. Med. & Bot. 46.—Microscopy of Foods[3]	(1)	(6)	(7)	(3)
Total for semester	10	20	30	17

Note: The minimum number of semester hours required for the B.S. degree is 134.

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*A minimum of 50 clock hours in the hospital pharmacy department.

[1] May be taken either semester.

[2] Chem. 44 or 46 may be elected instead of Chem. 42

[3] Mat. Med. & Bot. 46 may be elected instead of Mat. Med. & Bot. 44.

DEGREES CONFERRED

June, 1937

The Degree of Bachelor of Science in Pharmacy

Clifford Willard Anderson
Charles Henry Becker, with Honors
Philip Joseph Boffa
Theresa Marie Broccolo
Edward Wilder Brown
George William Burhop, B.S., Northwestern University, 1934
Franklin Charles Cevela, B.S., Lewis Institute, 1932
Carl Albert Cohn, B.S., University of Chicago, 1932
Marcella Leona Dargis
Clarence Earl Denton
John Wesley Elam, B.S., Lewis Institute, 1934
Harry Flower
Coleman H. Foote
Julius Frank
Robert Coultas Gasen
Sophie Inez Goldberg
Julius E. Golembo
Jeanette Sylvia Jacobson
Seymour Sanford Kalom
Leonard Carl Albert Klemme
Wilson T. Lacey
Forrest Virgil Leonard, with Honors
Charles Joseph Leone
Samuel Aaron Lewis
Ruth Virginia Madison
Frank Thomas Maher, with High Honors
H. Bernard Marder
Florence Louise Martz
John Robert McEncroe
Maxine Ruth McKee
Julius Alfred Meyerovitz
Bernard Meyrowitz
Fred Theodore Muetze
Joseph A. Muley
Paul Naktin
Edward Joseph Osmolak
Frank Ernest Parks, Jr.
Nathan Norman Potkin
Milton S. Prizant
John Bruno Przepiorski, with Honors
Irving J. Rabinowitz
Bernard Charles Rosenbloom
John Philip Samuels
Josephine Bernadette Scaletta
Martin Schwartz
John Scotellaro
Kenneth Maynard Stobart
Rita Irene Streit
Charles William Strout
George Emil Svoboda
Arthur T. Sypniewski
Rubin Uretzky
Raymond Joseph Warzynski, with Honors
Benjamin Maurice Weiss
Irving Robert Witt
Stephanie Infantia Zack

PRIZES AWARDED IN 1937

Samuel L. Antonow Prize in Pharmacy	Marcella Leona Dargis
Herman Elich Prize in Chemistry	Raymond Joseph Warzynski
William Gray Prize in Pharmacy	Franklin Charles Cevela
Hodel-Saltiel-Hodel Prize in Pharmacy	Frank Thomas Maher
Lee M. Pedigo Prize in Materia Medica	John Bruno Przepiorski
Alice E. Pelikan Prize in Materia Medica	Forrest Virgil Leonard
Rho Chi Membership Award in Pharmacy	Frank Thomas Maher
Andrew Scherer Prize in Pharmacy	Charles Henry Becker

REGISTER OF STUDENTS, 1937-38

Candidates for the Degree of Bachelor of Science in Pharmacy

Sophomores

Adamson, Raymond Sigfrid, Ph.C.—Chicago
Anderson, Carl Albert—Paxton
Arenson, Edward—Chicago
Arnold, Joseph Vincent—Chicago
Athas, Louis Peter—Salt Lake City, Utah
Augustyniak, John Julian—Chicago
Azoff, Louis Simpson—Danville
Bayner, Stanley John, Jr.—Chicago
Behrman, Russell Theodore—Effingham
Belosky, Marvin Lester—Chicago
Bredfeldt, John Charles—Chicago
Brody, Bernard Benjamin, Ph.C., LL.B.—Chicago
Caffarello, Vincent Jack, Jr.—Chicago
Chaet, Raymond Joseph—Chicago
Chvala, John Allen—Cicero
Cohen, Benjamin Hite—Chicago
Cooper, Ben—Chicago
Dintzis, Eleanor Patricia—Chicago
Duerkop, John Theodore—DesPlaines
Edminster, Francis Kenneth—Newman, California
Egebrecht, Russell Otto—Chicago
Engblom, George Alf—Chicago
Falkenhagen, Elmer—Forest Park
Feinberg, Ruben—Chicago
Gaier, Fred Gerald—Chicago
Ginsberg, Melvin—Chicago
Gizowsky, Peter—Chicago
Goldstein, Harry Earl—Chicago
Groetzinger, Marselle E. Derengowski—Chicago
Guttman, Erwin David—Chicago
Haughawout, F. Merle—Spring Valley
Jackson, Charles Henri—Louisa, Virginia
Jason, Norbert Charles—Chicago
Kalachnik, John—Chicago
Katz, Jerome—Chicago
Klucker, Harold Albert—Chicago
Kluza, Edward James—Chicago
Kutz, Edward Ben—Chicago
Lacey, Henry Cubitt—Chicago
Lackoff, Bernard—Chicago
Latshaw, Harold Lee—Chicago
Liesch, William Arthur—Chicago
Marcotte, Paul Joseph—Kankakee
Matravers, Marvin Bernard—Chicago
Mays, Leonidas Doran, Jr.—Quincy
McGuire, James Francis—Chicago
Meyer, Aubrey J.—Chicago
Molin, Armin Robert—Chicago
Moore, William Archibald—Chicago
Moran, Robert Joseph—Wilmette
Movitt, Irene Shirley—Chicago
Nachenberg, Stanley—Chicago
Opat, Joseph Charles—Cicero
Pattison, Harry Heise—Chicago
Piljac, William—Chicago
Pinzur, Harry—Chicago
Polakow, David—Chicago
Raycraft, Joseph Armsworth—Monticello
Resser, Louis—Chicago
Rupe, Harold Edmund—Litchfield
Rutili, Tullio Richard—Chicago
Sacks, Philip—Chicago
Saks, Seymour—Chicago
Seltzer, Max—Chicago
Semerdjian, Haigaz—Chicago
Sister Mary Oliver Kelly—Chicago
Sister Mary Amadeus Mulcahy—Chicago
Skibniewski, Xavier Francis—Chicago
Slavin, Albert—Chicago
Steingold, Herman—Chicago
Strauss, Paul—Chicago
Summers, Donald Eugene—Chicago
Venetucci, Adelaide E.—Chicago
Vycital, Richard Otto—McHenry
Walker, Amil—Chicago
Weiss, Marion—Harvey
White, Arthur—Chicago
Williams, John Oliver, B.S.—Chicago
Wright, John Charles—Chicago
Ziegler, Carl Louis—Forest Park

Juniors

Benda, Joseph—Berwyn
Berger, Edward—Chicago
Brin, Nathan Harold—Chicago
Bromberg, Rudolph—Chicago
Brussell, Harriet Josephine—Chicago
Budick, Anthony Joseph—Chicago
Celer, Joseph Frank—Brookfield
Cermak, John Joseph, Jr.—Berwyn
Chapman, Ednamae—Chicago
Chester, Jack—Chicago
Cienciwa, Boleslaus T.—Chicago
Cohen, Martin Henry—Chicago
Cross, Richard Luthur—Ottawa
Cutler, Isadore Edwin—Chicago
Dabovich, Thomas Chris—Chicago
DeStefano, Joseph Anthony—Chicago
Drell, Norman—Chicago
Eisele, Henry P.—Chicago
Favinski, Frank John—Chicago
Finkelman, Sol J.—Chicago
Fisher, Mylon O.—Brookfield
Frank, Ben—Chicago
Galloway, Kenneth Buel—Carthage
Gerchenson, Emile H.—Chicago
Griffith, Walter Lawrence—Chicago
Heimsath, Albert Peter—Aurora
Herman, Ben—Chicago
Homan, Sibyl Virginia—Moccasin
Hurkmans, Frank—Chicago
Karpel, William Jack—Chicago
Katz, Ben Jack—Chicago
Kaucky, Emanuel Joseph—Berwyn
Keefer, Albert Mathew—Chicago
Keefer, Jacob Thomas—Chicago
Kopecky, Frank Henry—Berwyn
Kozlicki, Frank—Chicago
Kraemer, Frank William Joseph, Jr.—Oak Park
Kravets, Irving—Chicago
Laczny, Raymond Conrad—Joliet
Lander, Norman Meyer—Chicago
Leininger, Eleanor Lee—Chicago
Lerman, Phil—Chicago
Levensbaum, Louis—Chicago
Liesch, LeRoy William—Chicago
Lizzadro, Antoinette Marie—Chicago
Lund, John George—Chicago
Maniates, Louis George—Chicago

Manning, John Francis—Chicago
Mladinov, Francis Anthony—Chicago
Modzelewski, Bruno Robert—Chicago
Mrazek, Charles Joseph—Chicago
Nudd, Hubert Joseph—Chicago
Para, Joseph Bernard—Chicago
Patka, Virginia Rita—Chicago
Payne, Thomas Michael—Chicago
Perlman, Kalman Isadore—Chicago
Ramsay, Gordon Dale—Metropolis
Riedl, Joseph Ernest—Chicago
Rizzo, Joseph—Chicago
Rook, Lawrence—Berwyn
Rose, Marshall A.—Chicago
Rosen, Philip D.—Chicago
Roth, Sidney Aaron—Chicago
Ryba, Milton—Chicago
Sacauskis, Michael Anton—Chicago
Silberman, Isadore—Chicago
Sister Mary Tarcisia Bucka—Chicago
Sister Mary Grace Kujawa, Ph.B.—Chicago
Smaler, Ben Isadore—Chicago
Sokolov, Joseph Louis—Chicago
Sorokin, George—Chicago
Spivak, Morey James—Chicago
Springer, Morton—Chicago
Stevens, Daniel Ollie—Chicago
Tenner, Sam—Chicago
Travers, Kenneth Sylvester—Chicago
Weber, Carl William—Hoopeston
Weinstein, Melvin—Chicago
Wicarius, Florian Max—Cicero
Zeitz, Aleck—Chicago
Zugich, John Joseph—DePue

Seniors

Alix, Max John—Chicago
Becker, Henry—Chicago
Begun, Martin—Chicago
Boffa, John Angelo—Chicago
Brown, Harry G.—East Chicago, Indiana
Connors, Harry James—Chicago
Damer, Edward John—Berwyn
Eberly, Ralph M.—Aurora
Evangelista, Sam Joseph—Chicago
Featherston, Lauren Richard—Kingsley, Iowa
Feldstein, Abe—Chicago
Finkel, Dave—Chicago
Fitzgerald, Robert Frank—Morrison
Fosen, Lloyd—Joliet
Fredson, Samuel Joseph—Chicago
Frosh, Alvin Joseph—Chicago
Ginsburg, Herbert R.—Chicago
Goldman, Hyman Z.—Chicago
Gurskis, Joseph E.—Chicago
Hamilton, David Orland, B.S.—Monmouth
Hart, Marshall Vaughn—Ullin
Hendricks, John Wilcox—Sterling
Jancauskas, Joseph Benedict—Cicero
Jung, Eugene Joseph—Argo
Kanapackis, Stephany Lucille—Chicago
Kaplan, Benjamin J.—Chicago
Katz, Herman—Chicago
Klotz, Julius Carl—Chicago
Kopec, Walter Andrew—Chicago
Koval, Alphonse Joseph—Chicago
Krugly, Bernard—Chicago
Krupinski, Helen Marcia—East Chicago, Indiana
Krupsky, Abe Morris—Chicago
Lindblade, Victor—Chicago
Maranda, John Marian—Chicago
Mather, Elton—Chicago
Mazonas, Joseph John—Chicago
Mosoff, Simon—Chicago
Newland, Henry—Chicago
Niedly, Adeline—Chicago Heights
Pleshar, Adalbert Joseph—Chicago
Pruszynski, Martha Helen—Chicago
Raispis, Marie Emily—Chicago
Rimkus, Joseph—Chicago
Romanski, Henry Joseph—Berwyn
Rudzinski, Leonard Joseph—Chicago
Sagona, Frank Micheal—Rockford
Schiff, Alfred Daniel—Chicago
Seamans, Bernard Irving—Chicago
Sellers, James B.—Chicago
Shipkin, Hyman—Chicago
Sister Mary Carl Marty—Springfield
Skembare, George—Chicago
Sloan, Udi Joseph—Chicago
Sparks, Ralph Dale—Lincoln
Stoeffhaas, Martin Robert, Jr.—Chicago
Suss, Henry—Chicago
Taylor, James Willard—Gillespie
Threlkeld, Victor Lennes—Mt. Vernon
Vaisvil, Isabella Antoinette—Cicero
Veaco, Sidney—Belvidere
Warhanik, Vernon Francis—Chicago
Warsaw, Philip—Chicago
Webb, Woodrow Wilson—Maywood
Widen, Frank—Chicago
Wrobel, Thaddeus—Chicago
Yablonsky, Isadore Jack—Chicago
Yallof, Charles—Chicago
Zeitlin, Sidney H.—Chicago

Unclassified

Bochner, Isidore, Ph.G.—Chicago

THE UNIVERSITY OF ILLINOIS
COLLEGE OF MEDICINE

(College of Physicians and Surgeons of Chicago 1881-1900)

Offers a five-year course (including one year of interne service in an approved hospital) leading to the degree of Doctor of Medicine. The degree of Bachelor of Science is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with an average of not less than 3.5 (about 83%) in all collegiate work. Preference, however, is given to applicants who have had three years of college work as prescribed by new requirements now going into effect.

For circular with detailed information address
The Dean, College of Medicine, University of Illinois
1853 West Polk Street, Chicago, Illinois

THE UNIVERSITY OF ILLINOIS
COLLEGE OF DENTISTRY

Offers a four-year course of instruction leading to the degree of Doctor of Dental Surgery. The degree of Bachelor of Science in Dentistry is conferred on qualified students at the end of the second year.

Entrance requirements: four years of accredited high school work or the equivalent, comprising not less than fifteen units in acceptable subjects; and two years of work in a recognized college or university, comprising not less than sixty semester hours, with the following prescribed distribution:

	Semester Hours
Chemistry (including 4 hours of organic chemistry)	12
Physics	6
Biology	6
English	6
Electives (exclusive of military, hygiene, and physical education)	30
Total	60

To establish eligibility to the degree of Bachelor of Science, a slightly modified distribution of entrance requirements is necessary.

For circular with detailed information address
The Dean, College of Dentistry, University of Illinois
808 South Wood Street, Chicago, Illinois

UNIVERSITY OF ILLINOIS

Colleges and Schools at Urbana

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College of Engineering.—Curricula in agricultural engineering, ceramics, ceramic engineering, chemical engineering, civil engineering, electrical engineering, engineering physics, general engineering, mechanical engineering, metallurgical engineering, mining engineering, and railway engineering.

College of Agriculture.—Curricula in agriculture, floriculture, general home economics, and nutrition and dietetics.

College of Education.—Curricula in education, agricultural education, home economics education, and industrial education. The University High School is the practice school of the College of Education.

College of Fine and Applied Arts.—Curricula in architecture, art, landscape architecture, and music.

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School of Journalism.—General and special curricula in journalism.

School of Physical Education.—Curricula in physical education for men and for women.

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College of Dentistry.—Professional curriculum in dentistry.

College of Pharmacy.—Professional curriculum in pharmacy.

University Experiment Stations, and Research and Service Bureaus at Urbana

Agricultural Experiment Station
Engineering Experiment Station
Extension Service in Agriculture and Home Economics

Bureau of Business Research
Bureau of Community Planning
Bureau of Educational Research
Bureau of Institutional Research

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State Geological Survey
State Natural History Survey
State Water Survey
State Historical Survey

State Diagnostic Laboratory (Animal Pathology)
U. S. Soybean Products Laboratory
U. S. Weather Bureau Station

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The Registrar, University of Illinois
Urbana, Illinois

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